HEALTH STATUS FACT BOOK

- social and biological indicators -

Fact Book on the Health Status

of
Hamilton-Wentworth
Residents

Prepared for

The Health Priorities Analysis Unit,
Faculty of Health Sciences, McMaster University;

The Hamilton-Wentworth District Health Council;

The Department of Health Services
of the
Regional Municipality of Hamilton-Wentworth

by

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Introduction

Chapter 1

1.1 PREFACE

Finagle's Laws state that:

(1) The information you have is not what you want.

(2) The information you want is not what you need.

(3) The information you need is not what you can obtain.

(4) The information you can get costs more than you want to pay

This second edition of the Fact Book represents our second attempt to break these laws for health status information in the Hamilton-Wentworth Region. The Fact Book was compiled for health professionals and others in the Region who are responsible for setting priorities for planning health care promotion and education activities. As Tugwell and his colleagues (1985) point out in their article "The Measurement Iterative Loop: A Framework for the Critical Appraisal of Need, Benefits and Costs of Health Interventions", the measurement iterative loop in its logical progression begins with quantifying the burden of illness, the topic of this Fact Book. This Fact Book does not specifically address the subsequent steps in the loop: identifying likely causes of illness, validating interventions that prevent or ameliorate it, and evaluating their efficiency. However, this and future editions of the Fact Book could also be used in the final steps of the loop, that is to monitor the application of these health interventions.

1.2 OBJECTIVES OF THE FACT BOOK

The objectives of the Fact Book are:

(1) to provide educators, health planners and service providers in Hamilton-Wentworth easy access to updated health status information that is routinely collected by health providers and others both in the Region (for example, hospitals) and outside the Region (for example, The Ministry of Health of Ontario).

(2) to facilitate the communication of reports and study results on health status and health promotion in Hamilton-Wentworth.

(3) to provide an overview of some of the available health status information and to enable the reader to track down the original source before drawing conclusions.

Truly accessible data is information that is used. For this it must be not only available, but also user friendly. In the inevitable tradeoff between time constraints and user friendly (graphic) interpretations of the raw data, it has been expedient to present the data much as it appeared in the original source.

Yet, although basically a compilation of tables and figures from other reports and data sets, the Fact Book does contain a number of tables and graphs that have been synthesized from the original material. Occasionally, we have offered a few editorial comments regarding the interpretation or reliability of the information provided. It is anticipated that future editions of the Fact Book will place greater emphasis on the interpretation of available information and on the establishment of priority issues based on available data.

The data included in the Fact Book were obtained over a three year period through contacts with representatives in a number of agencies. Each table and figure lists the data source. The Fact Book does not always disaggregate the data beyond the Regional level into, for example, municipalities or neighbourhoods. However, further disaggregation, for example, by neighbourhood or income status, is in some instances available from the sources referenced throughout the Fact Book.

The Fact Book was heavily dependent upon hospital based routinely collected health data. Future editions of the Fact Book will devote greater attention to data from other sectors of the health system.

We encourage readers (users) of the Fact Book to submit their comments on the data presented and to submit additional reports and study results that they feel should be included in the next edition. Our plan is to publish this book when the accumulation of important new data justifies this.

1.3 ORGANIZATION OF THE FACT BOOK

In this (second) edition of the Fact Book, material has been organized into a number of sections, in keeping with the format employed by Larry Chambers for Health Profiles of the Citizens of Ontario (published by the Canadian Public Health Association in 1987). Reference material on administrative boundaries, health care infrastructure, and demographic and socio-economic data follow the introduction. This material is to assist in the interpretation of the health-related data that follow. The section on general health status of the citizens of Hamilton-Wentworth includes both mortality and morbidity (health service utilization, including cancer cases). In the section on Preventive Primary Health Care, local data on sexually transmitted diseases, live births and perinatal mortality are presented. The Community Health Protection section covers immunization status, dental health, road trauma and occupational injury; while the Personal and Social Development section includes material on the frequency and types of mental health problems, lifestyle/health behaviour and substance abuse.

1.4 HOW TO USE THE FACT BOOK

The Fact Book attempts to provide global information about health status or the burden of illness in Hamilton-Wentworth. In other words, the Fact Book does what epidemiologists are trained not to do: to compile data banks. That is health status and burden of illness data should only be collected and compiled if they will address researchable or knowable questions.

In order to protect you the reader from falling into the data bank trap in using this Fact Book, we recommend you ask yourself the following questions when consulting the Fact Book:

(1) Is the attribute selected a relevant measurement?

For example, the use of mortality rates as an indicator of burden due to arthritis and musculo-skeletal problems tells us nothing about the magnitude of the associated pain and disability. Even when mortality is relevant it may give an incomplete picture. For example, for hypertension, burden includes distress and disability due to cardiac failure and stroke.

(2) Are the measurement methods accurate?

Measurement of the health attribute or health status indicator must be accurate. Cause of death is often inaccurate and most components of morbidity require specially designed surveys. Caution should be exercised when surrogate measures such as utilization or supply are used as indicators of burden because they have been shown to be at variance with good survey data in some situations. Where good evidence is not available, multiple sources of data should be checked (See Chambers et.al. 1983).

(3) Are the results straightforward to interpret and apply?

Summary statistics without sophisticated mathematical transformations or statistics for indicators such as mortality rates, the proportion suffering a specific disability, or mean blood pressure (with ranges or confidence limits as appropriate), are usually sufficient. In understanding the burden of illness at the Regional level, the actual number with the health problem is often the most important statistic, rather than proportions or rates. Proportions and rates, including those adjusted for age, sex and income, are important when comparing neighbourhoods or for comparisons of Hamilton-Wentworth with other regions.

Further cautions in interpreting the data provided in the Fact Book are listed in Appendix I. The advantages and disadvanages of mortality/morbidity data, of utilization/rates-under-treatment data and of social indicators are listed (Chambers et.al. 1983)

1.5 WHAT THE FACT BOOK DOES NOT DO

Data From Other Jurisdictions: In compiling this Fact Book, we have refrained from including data from jurisdictions other than the Hamilton-Wentworth Region except for purposes of comparison. Regional and provincial data have been provided in some cases to provide context for Hamilton-Wentworth values. However, comparisons should be made with caution, as socio-demographic and other characteristics typically vary from one geographic unit to the next, and may confound apparent differences in health status (as measured). Secondary data analyses, however, can and should be used to provide further information of the health status and burden of illness of Hamilton-Wentworth citizens. Age-standardized ratios are to be preferred in comparing the municipality to provincial averages. A note on the interpretation of standardized mortality (and morbidity) ratios is to be found at the beginning of Chapter 3.

Quality of Fact Book Data: In compiling the data for this Fact Book, we have relied on bona fide sources. However, we urge the user not to stop here. If these data are to be used for decision making, we urge you to satisfy yourself about the quality of the data reported here by contacting the persons we have indicated who can provide further information about these data. Appendix 1 is provided to assist you to evaluate the quality of these data.

Why the Phrase "High Risk" is Misleading: Health providers have overused the phrase "high risk". Often data such as those presented here are used to identify "High Risk" populations. The phrase "high risk", however, can refer to at least three concepts: avoidable versus unavoidable illness; community burden versus individual burden; and, point of view.

Firstly, unavoidable burden of illness comprises disability, symptoms and mortality for which no efficacious prevention or cure currently exists (such as AIDS and Alzheimer's disease). Resource allocation in these cases should focus on research into etiology, prevention and cure, and not just on care of current victims. The avoidable burden of illness comprises disability, symptoms and mortality for which efficacious prevention or therapy currently exists (such as the prevention of rubella by immunization and prevention of lung cancer by smoking cessation). Resource allocation here should focus on the provision of health care of proven efficacy or on research into community effectiveness and efficiency of a known efficacious intervention.

Second, the distinction between community and individual burden of illness is an important one. For example, the majority of members of a community may have a "mild" illness such as influenza that results in perhaps a two-week interruption in one's daily routine. The total community impact or burden of illness is quite large when the total number of lost working days is calculated. On the other hand, the individual burden of an illness may be devastating but only affect a few members of the community, such as is the case with AIDS.

Third, definitions of "high risk" are influenced by one's point of view. The need for a health intervention is usually determined by a health planner or provider of care. Consumers of health care (patients) may or may not desire such interventions. For example, a person who is 90 and has lung cancer may not want certain kinds of health care.

Therefore we urge that the Fact Book be used for quantifying some avoidable need in Hamilton-Wentworth, for estimating the burden of certain illnesses on the community as a whole, and for use in estimating the need for interventions by health planners and providers.

1.6 THE HEALTH PRIORITIES ANALYSIS UNIT (HPAU)

The HPAU is a health information unit in the Educational Centre for Aging and Health (McMaster University) which is actively establishing working relationships with information sources in the Community, the University and Regional Government. Its role is to foster and promote advances in education and research in health and health care by encouraging the development of systems for improving access to and use of reliable information concerning health needs and trends in the community.

Making key health information accessible to those who will find it useful (education, planning etc) is integral to the mandate of the HPAU. The Fact Book on the Health Status of Hamilton-Wentworth Residents represents a crucial first step in this process. As previously stated, it is our intention that the Fact Book be expanded over time to be not only more comprehensive in its coverage of local health information, but also to do so with greater depth of analysis and critical appraisal. In this manner, the process of determining and prioritizing community health needs can be undertaken.

Additional information regarding the mandate, organization and activities of the HPAU is contained in Appendix III.

REFERENCES

Chambers LW 1987. Health Profiles of the Citizens of Ontario. Ottawa: The Canadian Public Health Association.

Chambers LW, Woodward C. 1983. Guide to Health Needs Assessment: A Critique of Available Sources of Health and Health Care Information (revised edition). Ottawa: The Canadian Public Health Association.

Tugwell P, Bennett KJ, Sackett DL, Haynes BN. 1985. The measurement iterative loop: a framework for the critical appraisal of need, benefits and costs of health interventions. Journal of Chronic Disease. 38(4):339-351.

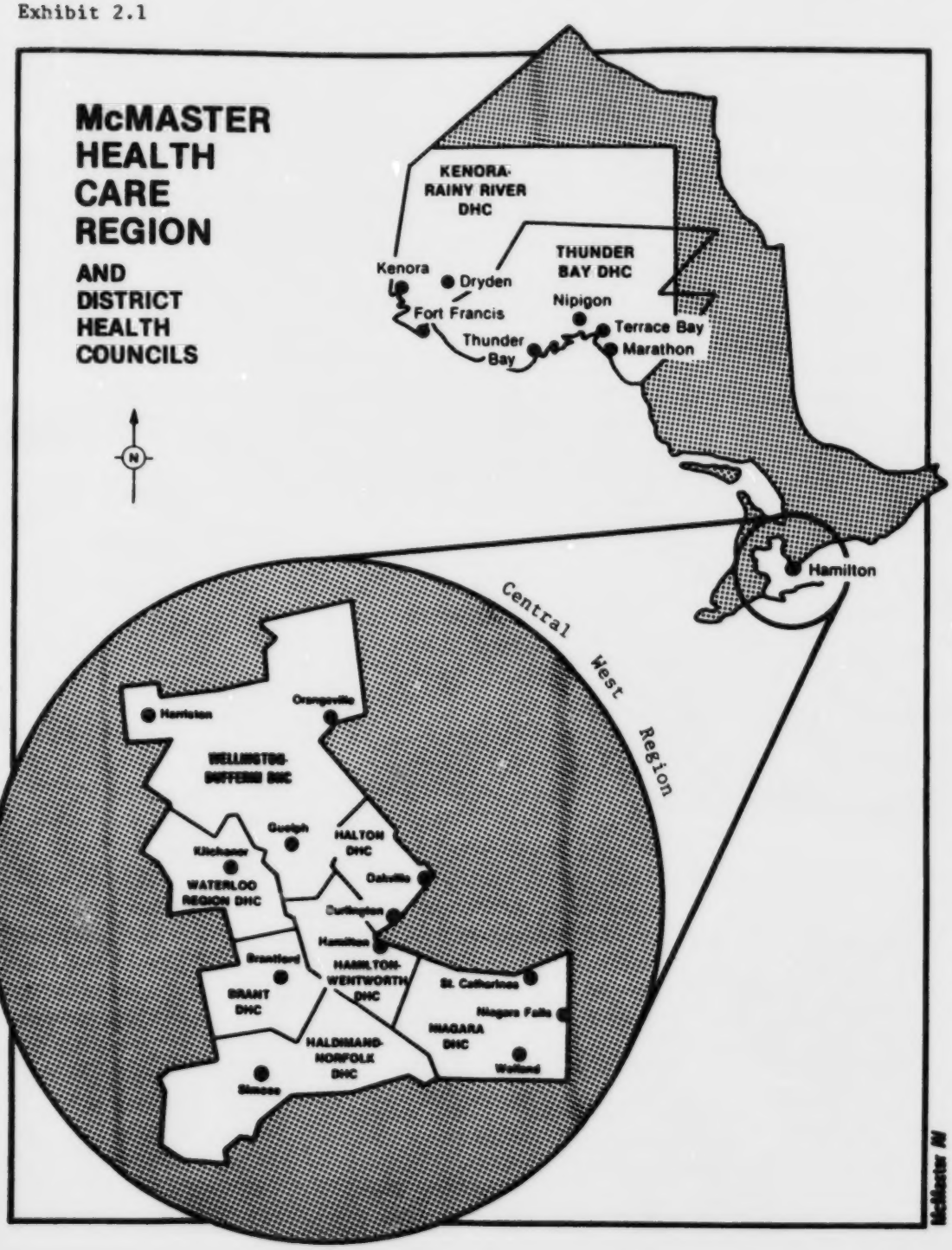
Socio-demographic

and background information

- geography
- demographics
- socio-economics
- health care system and infrastructure

Chapter 2

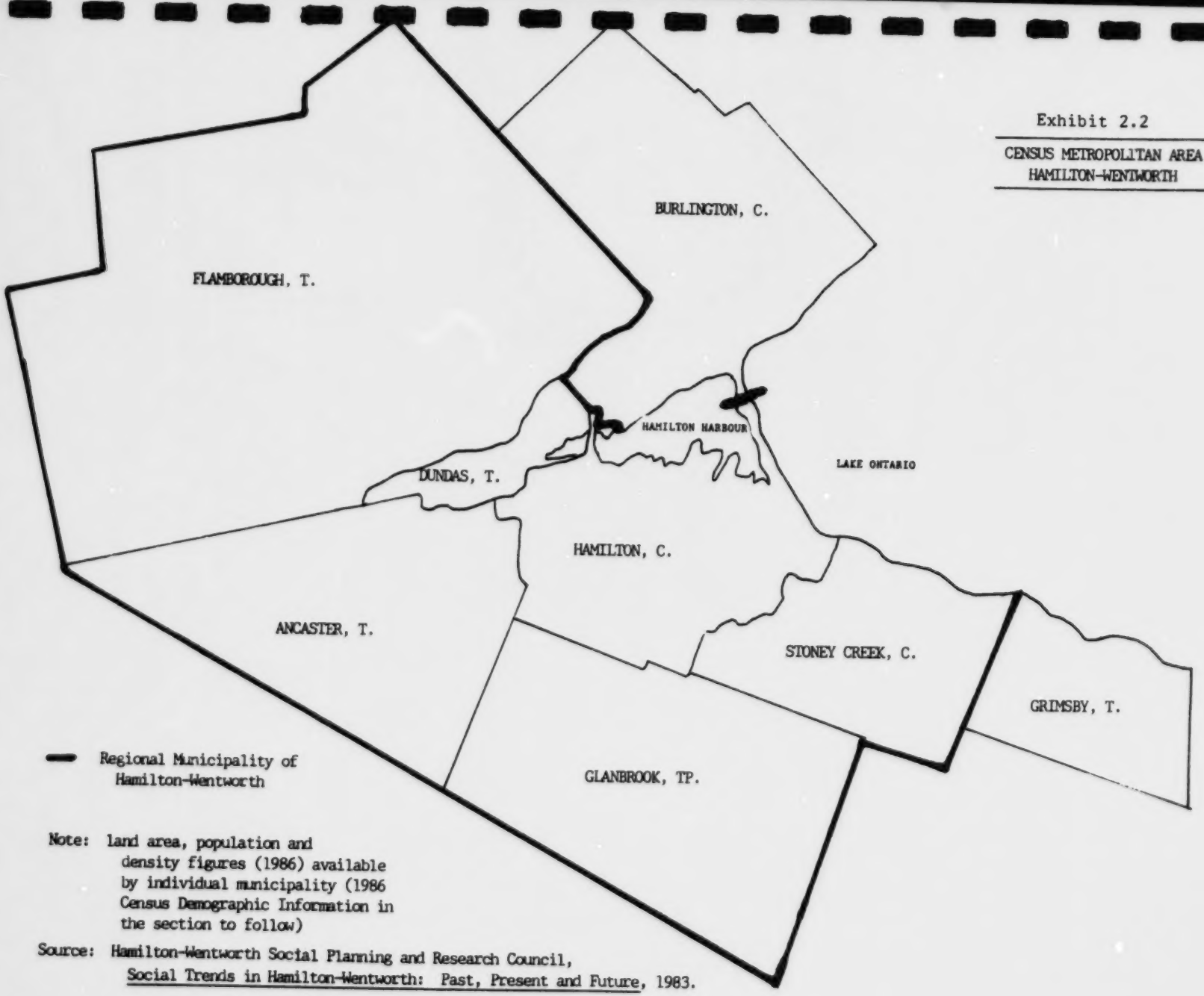
Exhibit 2.1



Source: Learning Resources, McMaster University Faculty of Health Sciences, Health Science Briefs. Volume I: Overview, 1987.

Exhibit 2.2

CENSUS METROPOLITAN AREA
HAMILTON-WENTWORTH



Note: land area, population and density figures (1986) available by individual municipality (1986 Census Demographic Information in the section to follow)

Source: Hamilton-Wentworth Social Planning and Research Council, Social Trends in Hamilton-Wentworth: Past, Present and Future, 1983.

Exhibit 2.3

CENSUS TRACTS AND SUBDIVISIONS, HAMILTON-WENTWORTH

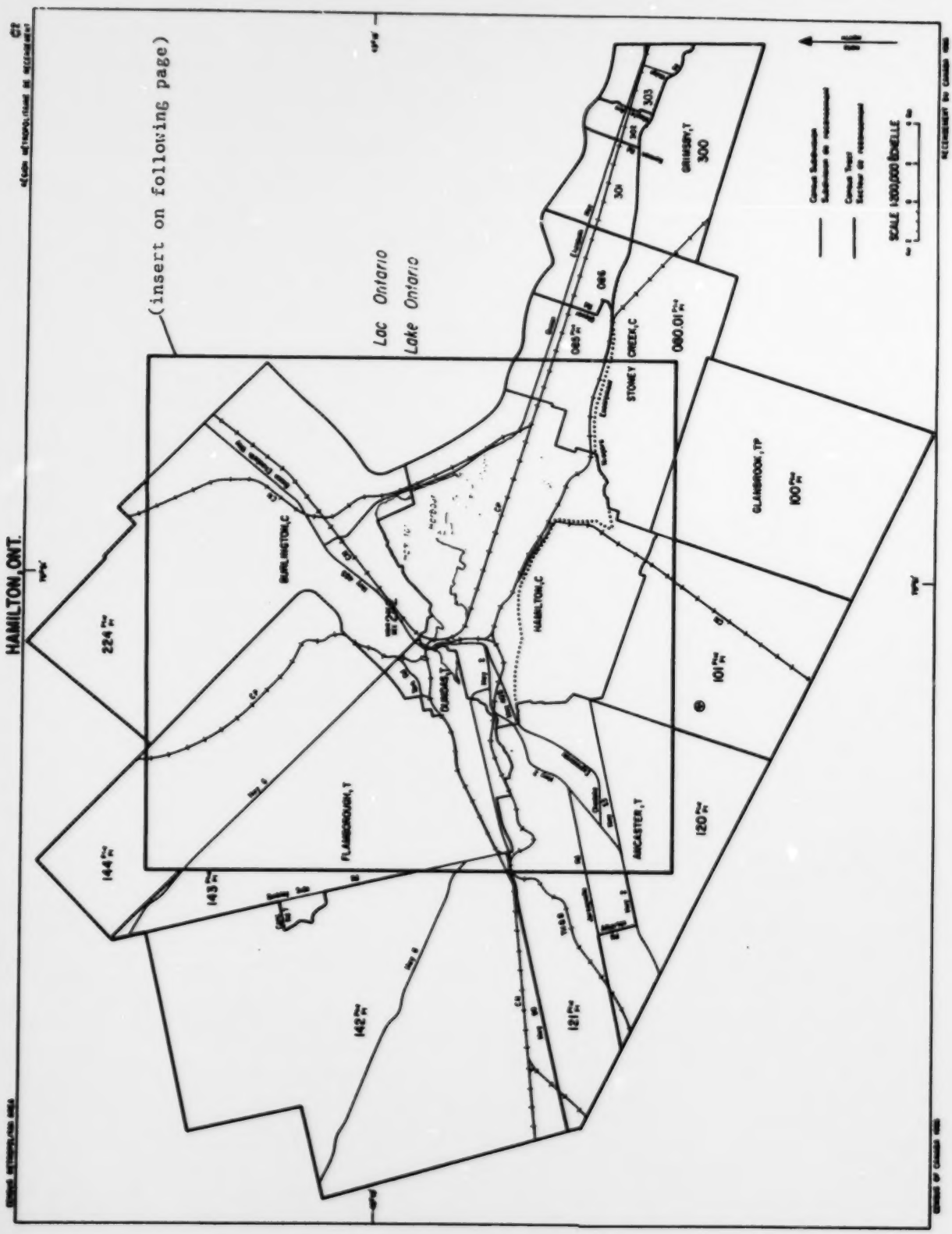
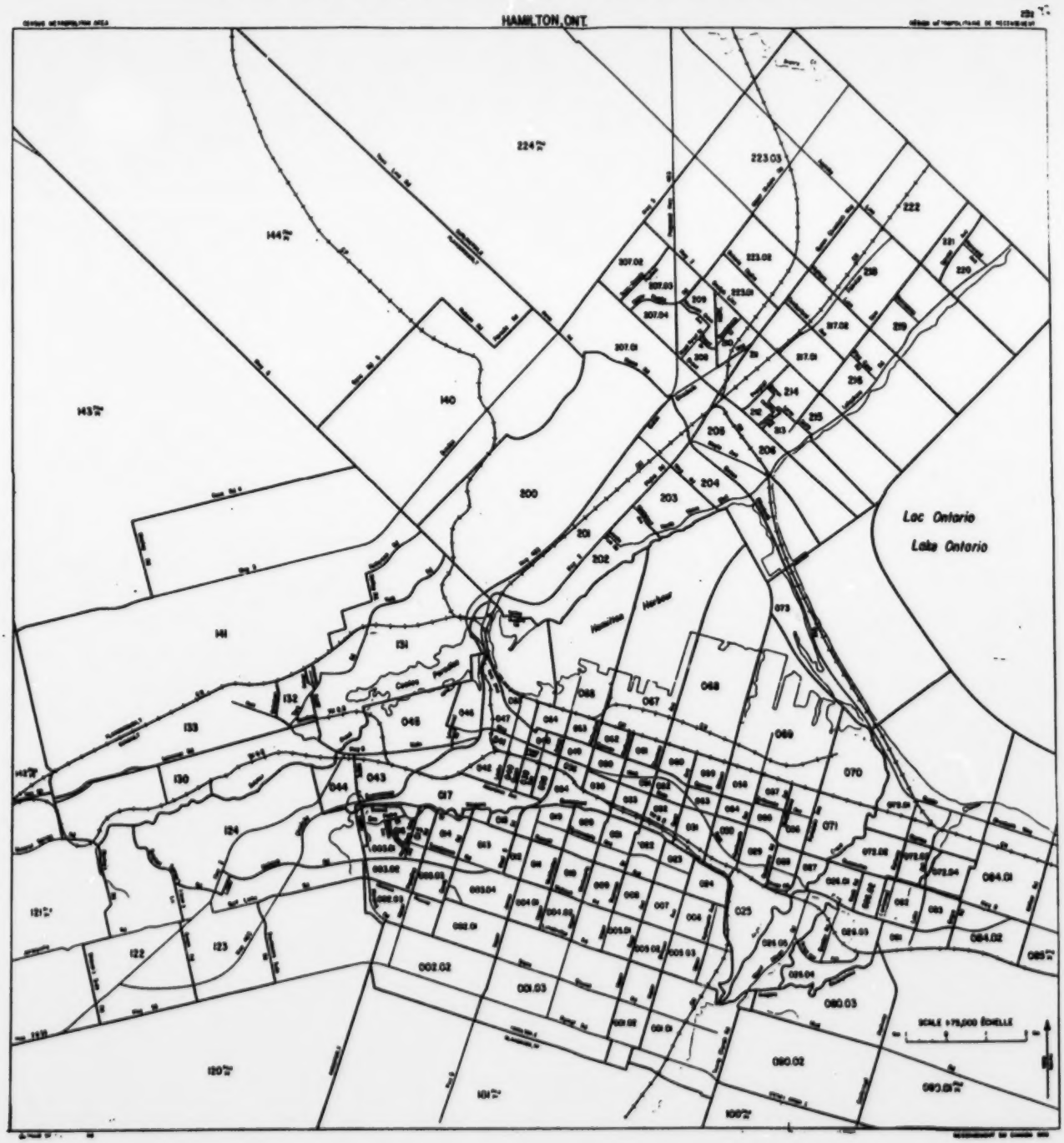


Exhibit 2.3 continued

CENSUS TRACTS AND SUBDIVISIONS, HAMILTON-WENTWORTH*



* Insert from previous page.

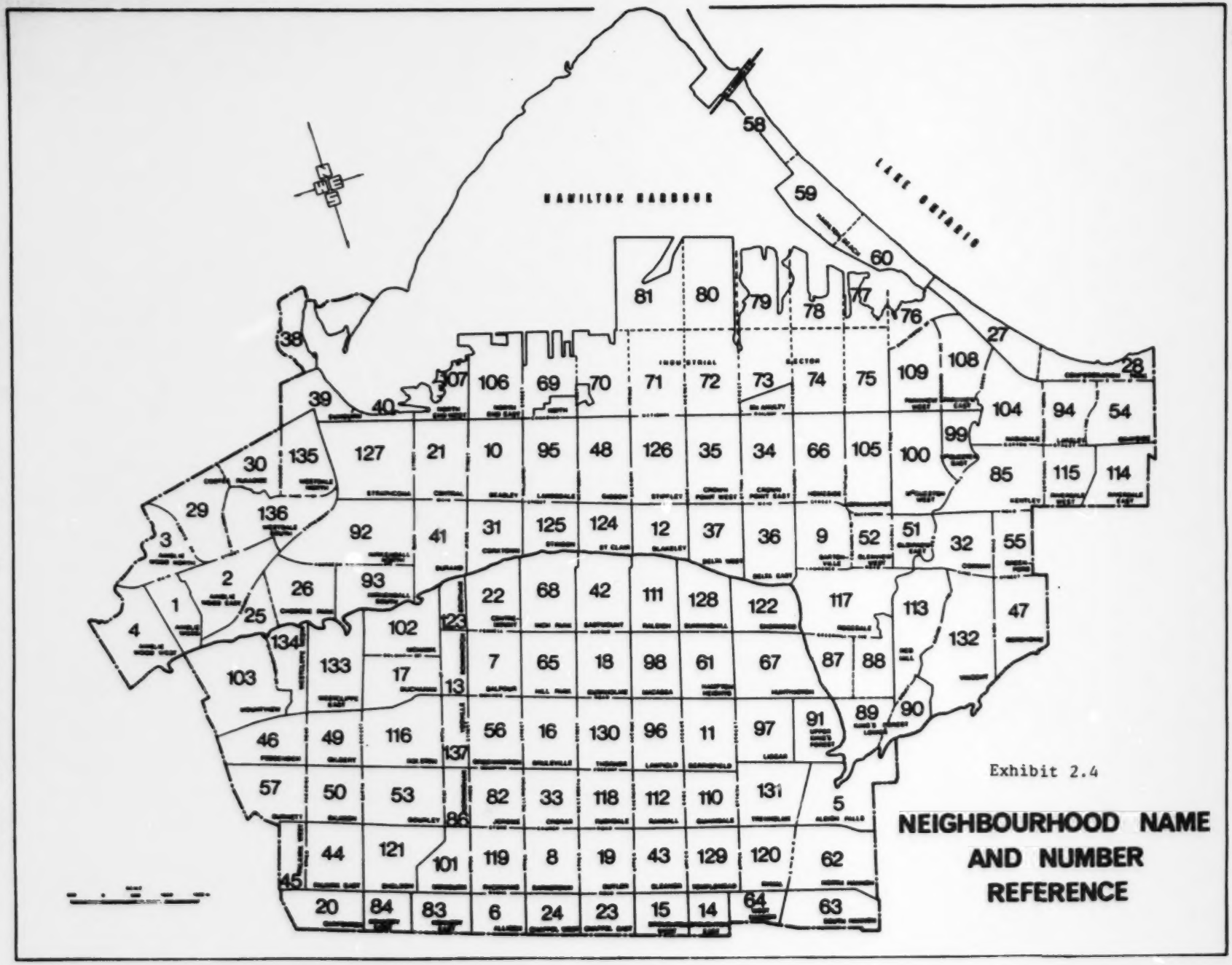


Exhibit 2.4

NEIGHBOURHOOD NAME AND NUMBER REFERENCE

Source: Hamilton-Wentworth Social Planning and Research Council, 1988

Exhibit 2.5

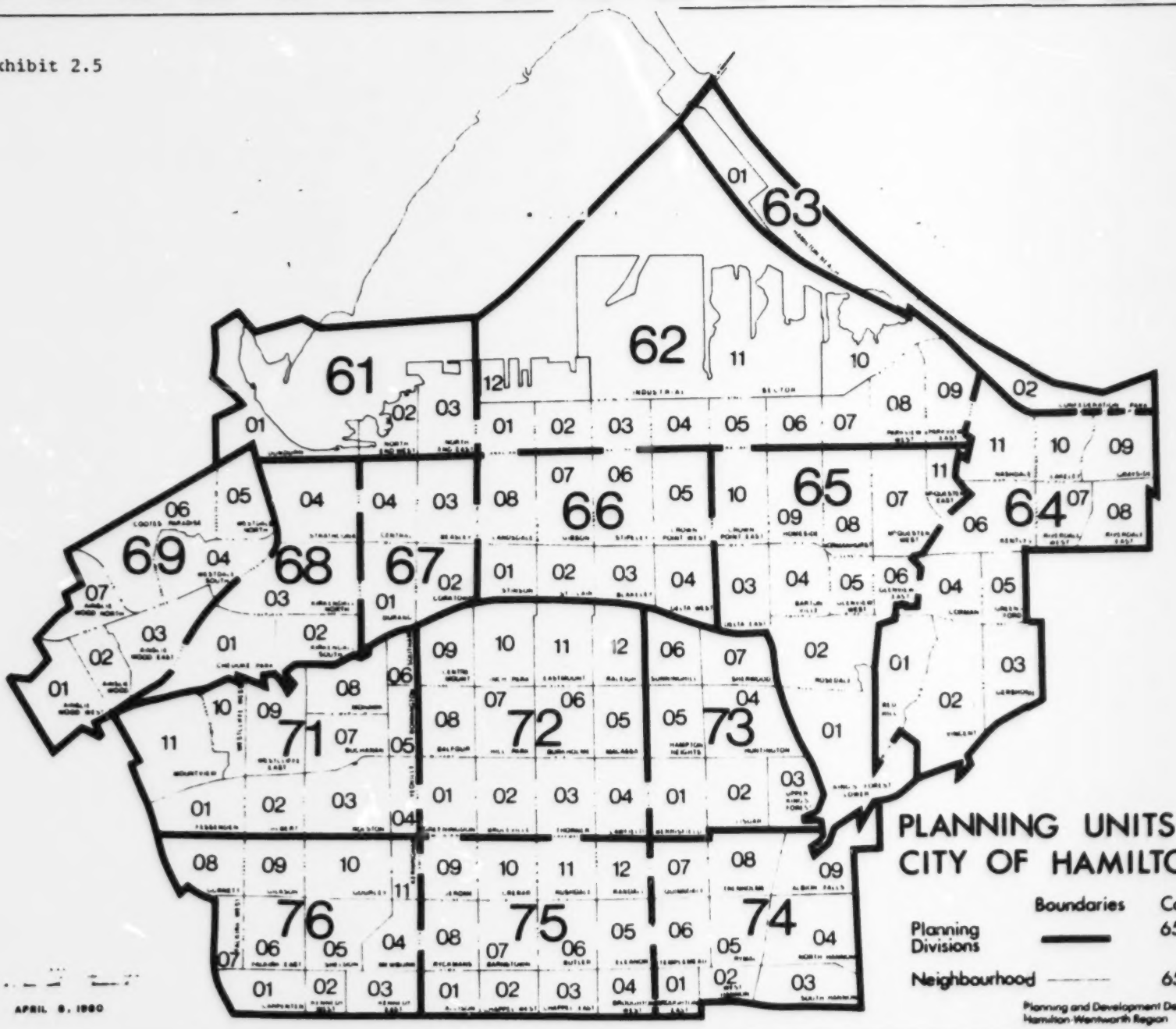

PLANNING UNITS
CITY OF HAMILTON
Boundaries
Code
Planning Divisions
65
Neighbourhood
6509
APRIL 8, 1980
Planning and Development Department
Hamilton-Wentworth Region

Exhibit 2.6

TOWN OF STONEY CREEK

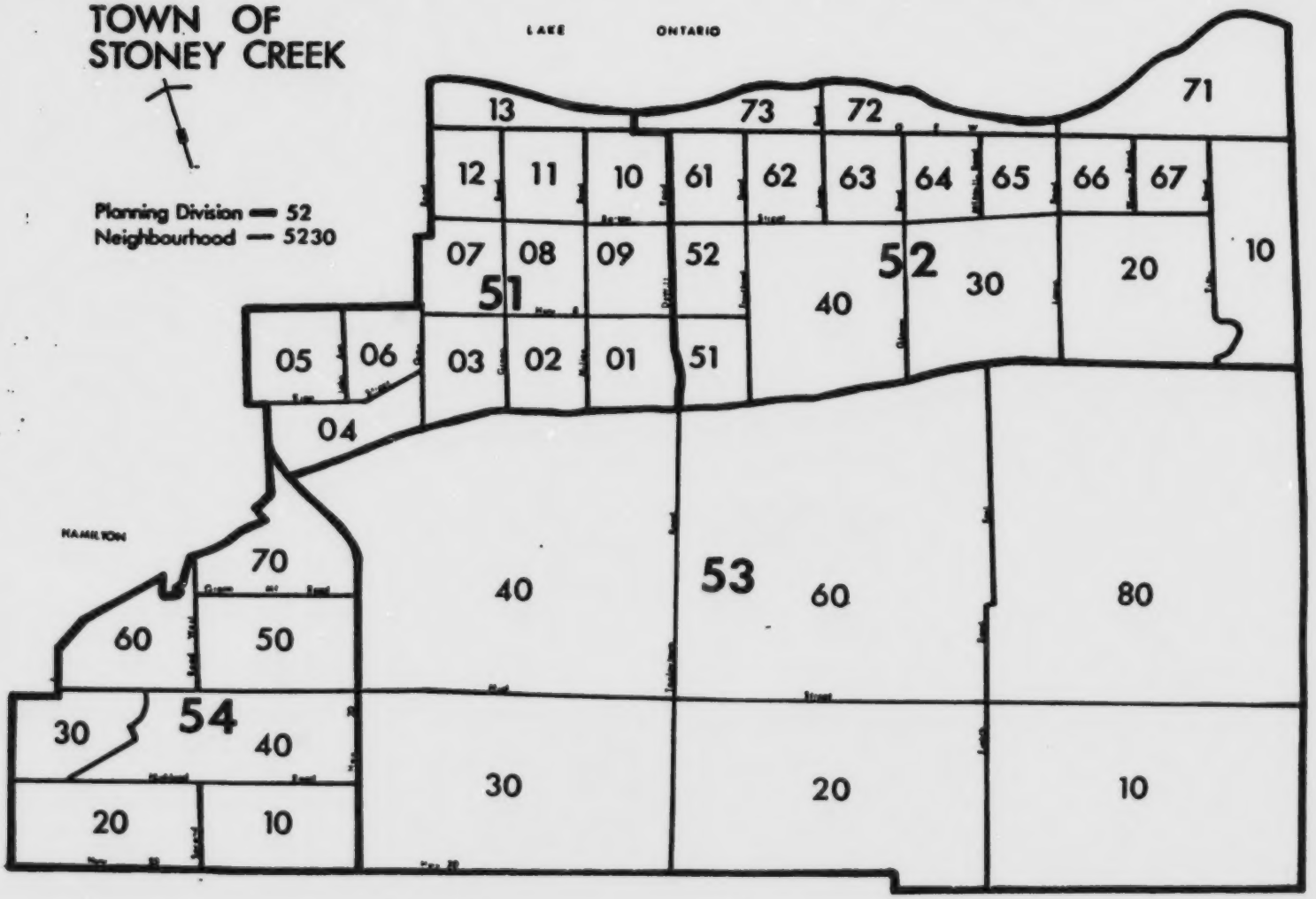


Exhibit 2.7

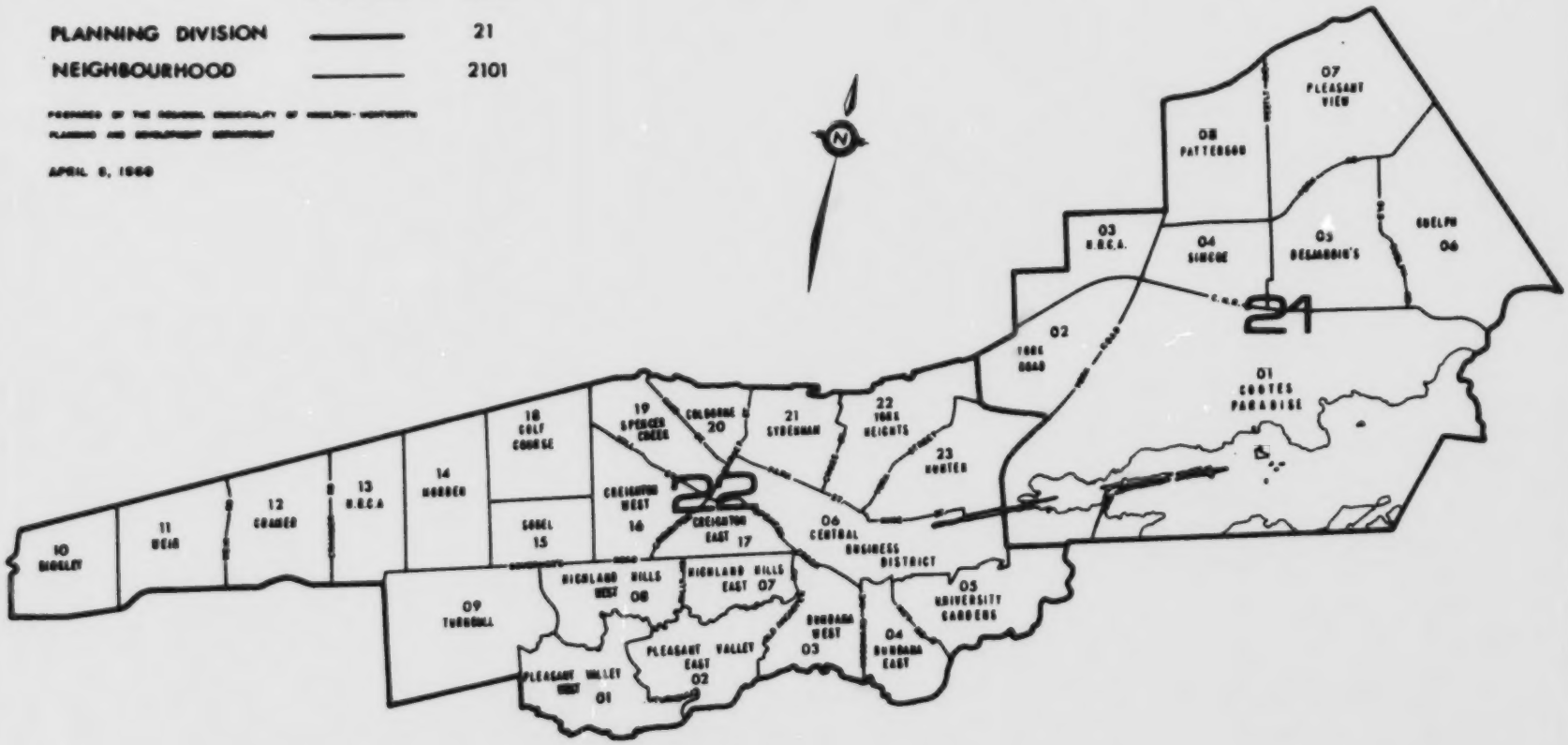
PLANNING UNIT CODES
TOWN OF DUNDAS

LEGEND

	BOUNDARY	CODE
PLANNING DIVISION	———	21
NEIGHBOURHOOD	———	2101

PREPARED BY THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH PLANNING AND DEVELOPMENT DEPARTMENT

APRIL 8, 1980



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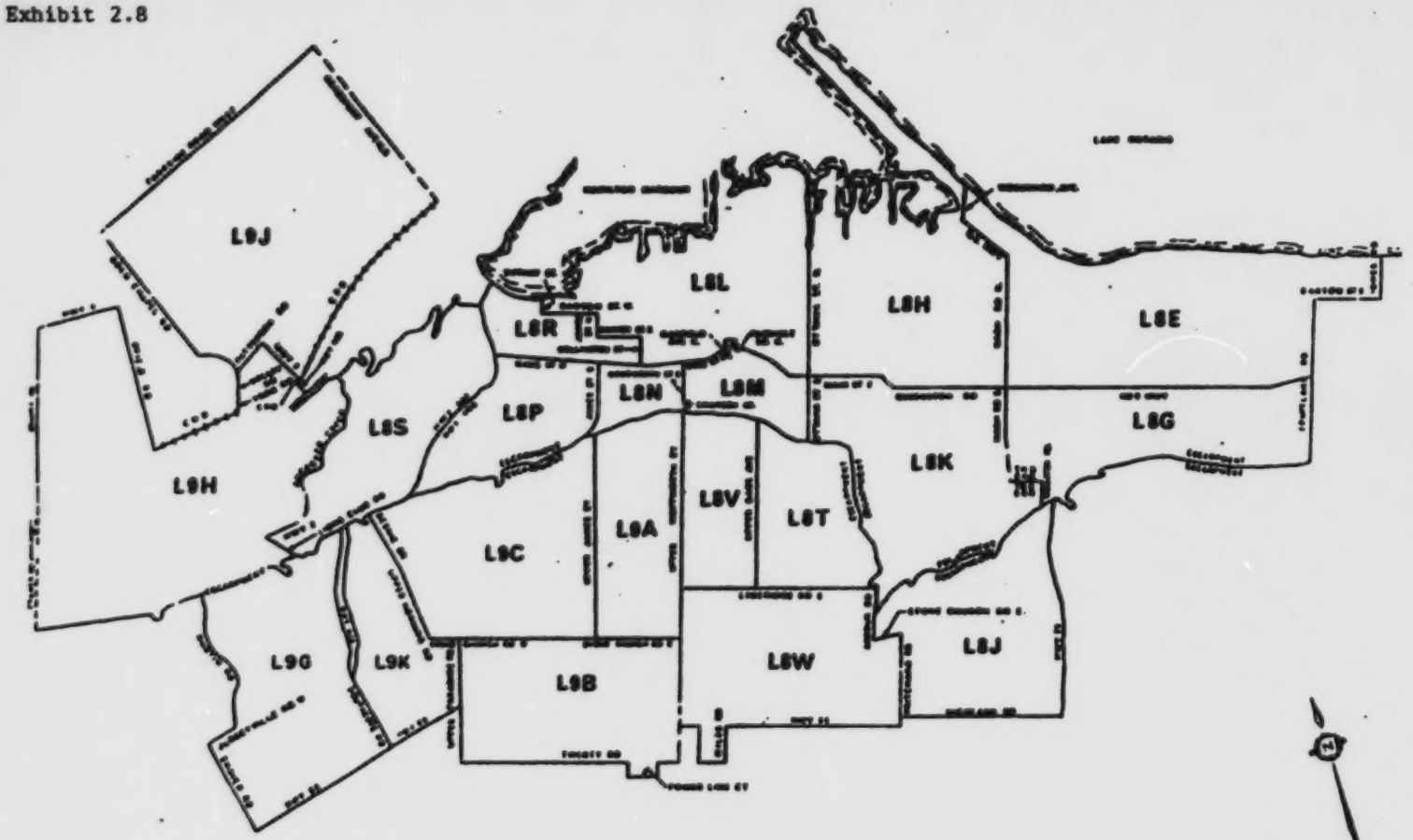


HAMILTON, ONTARIO

Delivery area and forward sortation areas
Secteur de distribution et régions de tri d'acheminement
(Postal Code Zones)

Canada Post 1980

Characteristics	Hamilton CMA/RMR	Ancaster, T	Burlington, C ☆	Dundas, T	Flamborough, T	Glanbrook, TP	Grimsby, T ☆	Hamilton, C	Stoney Creek, C
POPULATION/LAND AREA									
Population, 1981(1)	542,095	14,428	114,853	19,586	24,470	9,765	15,797	306,434	36,782
Population, 1986	557,029	17,264	116,675	20,118	26,142	9,592	16,956	306,728	43,554
Population percentage change, 1981-1986	2.8%	19.7%	1.6%	2.7%	6.8%	-1.8%	7.3%	0.1%	18.9%
Land area in square kilometres, 1986	1 356,50	174,57	177,41	24,42	489,90	202,74	68,12	122,89	98,65
Population density per square kilometre, 1986	410,8	98,9	657,7	823,8	53,4	47,3	248,9	2 500,0	441,5
POPULATION CHARACTERISTICS									
Total population	557,030	17,285	116,675	20,120	26,145	9,595	16,955	306,730	43,555
by sex and age									
Male, total	272,190	8,695	57,385	9,570	13,300	4,935	8,485	148,100	21,730
0 - 4 years	18,840	835	3,805	685	1,060	325	710	9,960	1,760
5 - 9 years	18,250	710	3,925	845	1,040	385	595	9,235	1,730
10 - 14 years	19,210	690	4,550	835	1,100	405	585	9,480	1,885
15 - 19 years	21,485	705	5,020	760	1,120	425	715	11,005	1,735
20 - 24 years	24,860	650	4,985	800	1,000	390	660	14,530	1,845
25 - 34 years	49,335	1,955	8,760	1,420	1,975	735	1,315	26,355	3,890
35 - 44 years	38,800	1,495	9,090	1,430	2,185	815	1,285	18,000	3,530
45 - 54 years	30,015	1,035	7,005	1,070	1,510	570	985	15,460	2,385
55 - 64 years	28,040	980	5,760	1,035	1,300	495	760	16,780	1,810
65 - 74 years	17,850	555	3,095	680	745	265	505	10,650	1,150
75 years and over	8,860	265	1,380	415	285	100	290	5,630	490
Female, total	284,840	8,570	59,290	10,545	12,845	4,655	8,470	158,630	21,825
0 - 4 years	18,150	840	3,650	685	1,005	335	575	9,635	1,825
5 - 9 years	17,285	615	3,750	605	925	350	535	8,860	1,695
10 - 14 years	18,445	580	4,270	585	1,020	395	645	9,220	1,725
15 - 19 years	20,830	670	4,755	730	1,040	400	670	10,915	1,845
20 - 24 years	24,580	570	4,865	715	915	315	615	14,985	1,820
25 - 34 years	48,905	1,240	9,085	1,635	2,030	710	1,365	26,875	3,975
35 - 44 years	38,880	1,460	9,785	1,525	2,170	770	1,260	19,570	3,445
45 - 54 years	30,220	980	6,955	1,060	1,380	535	935	16,225	2,150
55 - 64 years	30,905	980	5,645	1,165	1,320	480	800	18,360	1,980
65 - 74 years	21,185	535	3,770	840	685	250	575	13,310	1,230
75 years and over	16,335	280	2,545	1,000	360	120	505	10,695	830
by marital status									
Single (never married), total	223,685	6,980	46,635	7,750	10,795	3,975	6,735	123,230	17,825
Single (never married), 15 years of age and over	113,415	3,980	22,660	3,920	4,645	1,785	3,010	66,835	7,475
Married (includes separated)	288,230	9,585	63,015	10,505	14,210	5,225	9,165	152,895	23,835
Widowed	28,980	530	4,825	1,420	785	275	810	19,910	1,830
Divorced	15,105	190	2,400	450	355	120	240	10,695	885

Source: Statistics Canada, Census Tract Profiles: Hamilton, Supply and Services Canada, Feb.88 [Table 2]

☆ Areas included in the Hamilton CMA, but not in the Regional Municipality

Definitions:

CENSUS FAMILY

Refers to a husband and a wife (with or without children who have never married, regardless of age), or a lone parent of any marital status, with one or more children who have never married, regardless of age, living in the same dwelling. For census purposes, persons living in a common-law type of arrangement are considered as now married, regardless of their legal marital status; they accordingly appear as a husband-wife family in most census family tables.

ECONOMIC FAMILY

Refers to a group of two or more persons who live in the same dwelling and are related to each other by blood, marriage or adoption. Persons living common-law are considered, for census purposes, as now married regardless of their legal marital status; they accordingly appear as married couples in the economic family tables.

Characteristics	Hamilton CMA/CMR	Ancaster, T	Burlington, C	Dundas, T	Flamborough, T	Glanbrook, TP	Grimsby, T	Hamilton, C	Stoney Creek, C
CENSUS FAMILY CHARACTERISTICS (concluded)									
Children in Census Families									
Total number of children at home	188,485	6,560	41,730	6,610	9,005	3,690	6,150	97,450	16,290
by age									
Under 6 years of age	63,400	1,945	8,885	1,840	2,410	780	1,910	22,745	3,988
6 - 14 years	84,885	2,385	14,845	2,140	3,850	1,375	2,105	32,485	6,015
15 - 17 years	23,040	795	5,870	885	1,280	500	775	12,020	2,005
18 - 24 years	63,305	1,575	10,150	1,535	2,105	815	1,360	22,355	3,410
25 years and over	12,795	380	2,195	400	540	220	320	7,845	880
Average number of children per census family(4)	1.2	1.3	1.3	1.2	1.4	1.4	1.3	1.2	1.3
Persons in Private Households									
by census family status and living arrangements									
Total number of persons	548,825	17,200	115,745	19,255	25,880	9,530	16,710	301,450	43,195
Number of non-family persons	71,820	1,030	11,100	2,170	1,815	800	1,425	50,370	3,310
Living with relatives (5)	15,000	335	2,530	470	525	205	325	10,470	1,050
Living with non-relatives only	12,815	200	2,185	350	425	135	270	8,525	525
Living alone	43,400	490	6,490	1,355	865	260	835	31,375	1,730
Number of family persons	477,000	16,170	104,950	17,085	24,060	8,830	15,280	251,075	39,850
Average number of persons per census family	3.1	3.3	3.2	3.1	3.3	3.3	3.2	3.0	3.3
Total number of persons 65 years and over	58,535	1,575	10,275	2,215	2,030	735	1,880	37,560	3,495
Number of non-family persons 65 years and over	23,510	425	3,510	845	800	185	800	16,185	1,180
Living with relatives (5)	5,250	145	835	180	180	75	130	3,400	395
Living with non-relatives only	1,130	25	110	40	30	10	40	825	45
Living alone	17,035	245	2,580	815	390	100	435	11,940	745
Number of family persons 65 years and over	35,025	1,145	6,765	1,370	1,435	550	1,080	21,395	2,300
ECONOMIC FAMILY CHARACTERISTICS									
Economic Families									
Total number of economic families in private households	154,215	4,925	33,015	5,550	7,250	2,685	4,715	83,920	12,140
by size of family									
2 persons	58,405	1,825	11,810	2,185	2,435	870	1,815	35,070	3,830
3 persons	35,305	1,085	7,510	1,225	1,525	580	1,040	19,515	2,730
4 persons	30,085	1,415	8,105	1,480	1,880	750	1,380	18,415	3,585
5 or more persons	21,520	605	4,585	805	1,225	485	705	10,915	2,005
Persons in Private Households									
Total	548,825	17,200	115,740	19,260	25,880	9,530	16,715	301,445	43,180
Number of unattached individuals	58,015	880	8,875	1,705	1,295	395	1,105	39,905	2,255
Number of economic family persons	482,905	16,505	107,085	17,555	24,585	9,135	15,805	261,545	40,905
Average number of persons per economic family	3.2	3.4	3.2	3.2	3.4	3.4	3.3	3.1	3.4

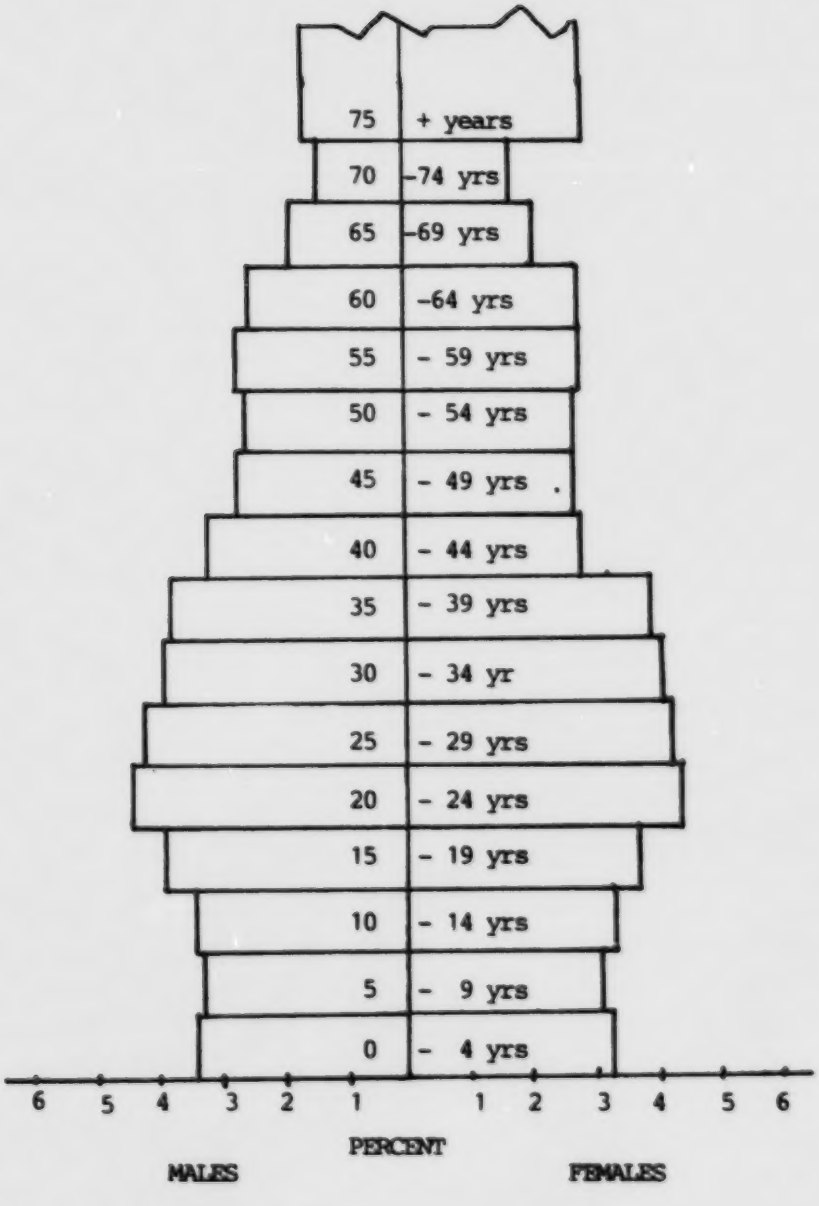
Source: Statistics Canada, Census Tract Profiles: Hamilton, Supply and Services Canada, February 1988 [Table 2]

Characteristics	Hamilton CMA/CMR	Ancaster, T	Burlington, C	Dundas, T	Flamborough, T	Glanbrook, TP	Grimsby, T	Hamilton, C	Stoney Creek, C
DWELLING CHARACTERISTICS									
Total number of occupied private dwellings.....	301,330	5,460	40,130	7,005	8,215	2,975	5,835	117,830	13,095
by tenure									
Owned	130,125	5,050	28,175	4,985	6,955	2,635	4,805	66,755	10,970
Rented	71,180	410	11,940	2,020	1,265	335	1,020	51,170	3,020
On reserve(2)	-	-	-	-	-	-	-	-	-
by type of dwelling									
Single-detached house	130,305	5,185	24,175	4,675	7,220	2,805	4,520	61,485	10,255
Apartment, 5 or more storeys	38,210	5	7,190	960	385	-	170	27,875	1,630
Movable dwelling	85	-	5	-	45	-	5	10	-
All other types(3)	42,740	290	8,745	1,370	570	165	940	28,560	2,105
HOUSEHOLD CHARACTERISTICS									
Private Households									
Total number of private households.....	301,325	5,460	40,120	7,005	8,220	2,975	5,830	117,830	13,090
by size of household									
1 person	43,460	490	6,480	1,355	865	280	835	31,375	1,730
2 persons	80,860	1,835	12,015	2,215	2,450	870	1,880	38,280	3,860
3 persons	38,630	1,080	7,685	1,255	1,555	595	1,045	20,605	2,755
4 - 5 persons	94,300	2,005	12,725	1,995	2,815	1,090	1,850	26,830	5,095
6 - 9 persons	8,925	240	1,215	180	435	160	240	3,500	585
10 or more persons	95	5	15	-	10	-	5	60	5
by number of families									
Non-family household	80,285	580	7,555	1,560	1,035	315	980	38,285	1,980
1 census family	148,830	4,825	32,170	5,395	7,090	2,620	4,800	80,415	11,805
2 or more census families	2,120	50	395	55	95	35	65	1,220	195
Persons in Private Households									
Total	548,925	17,200	115,745	19,255	25,880	9,530	18,710	301,445	43,195
Average number of persons per household.....	2.7	3.2	2.8	2.7	3.1	3.2	3.0	2.6	3.1
CENSUS FAMILY CHARACTERISTICS									
Census families									
Total number of census families in private households.....	153,190	4,830	33,860	5,565	7,280	2,700	4,735	62,670	12,305
by size of family									
2 persons	62,230	1,715	12,410	2,225	2,660	945	1,730	36,485	4,120
3 persons	34,830	1,095	7,480	1,245	1,520	575	1,045	19,185	2,780
4 persons	27,830	1,410	9,105	1,440	1,980	745	1,305	10,285	3,640
5 or more persons	10,100	710	3,880	580	1,195	430	610	6,935	1,680
by family structure and presence of children									
Number of husband-wife families.....	135,230	4,055	29,855	4,870	6,795	2,540	4,395	70,750	11,380
With no children at home	52,120	1,555	10,775	1,915	2,340	850	1,535	28,490	3,670
With children at home	83,210	2,105	19,085	3,060	4,480	1,885	2,860	41,270	7,885
1 child at home	29,270	1,005	6,355	1,075	1,375	540	925	15,505	2,495
2 children at home	36,315	1,380	8,825	1,395	1,910	730	1,325	17,180	3,560
3 or more children at home	17,820	705	3,905	585	1,170	425	610	8,585	1,835
Number of lone-parent families.....	17,860	280	3,100	540	485	180	340	12,115	840
Male parent	3,985	80	560	85	95	45	65	1,830	185
1 child at home	1,750	45	320	55	50	35	30	1,120	100
2 children at home	880	35	180	25	40	10	25	515	85
3 or more children at home	210	5	55	5	5	-	10	180	30
Female parent	14,005	195	2,540	455	385	110	275	10,285	680
1 child at home	8,255	115	1,315	260	215	65	150	5,875	355
2 children at home	4,770	60	940	140	110	35	90	3,185	230
3 or more children at home	1,785	15	285	50	60	15	35	1,345	80

Source: Statistics Canada, Census Tract Profiles: Hamilton, Supply and Services Canada, February 1988 [Table 2]

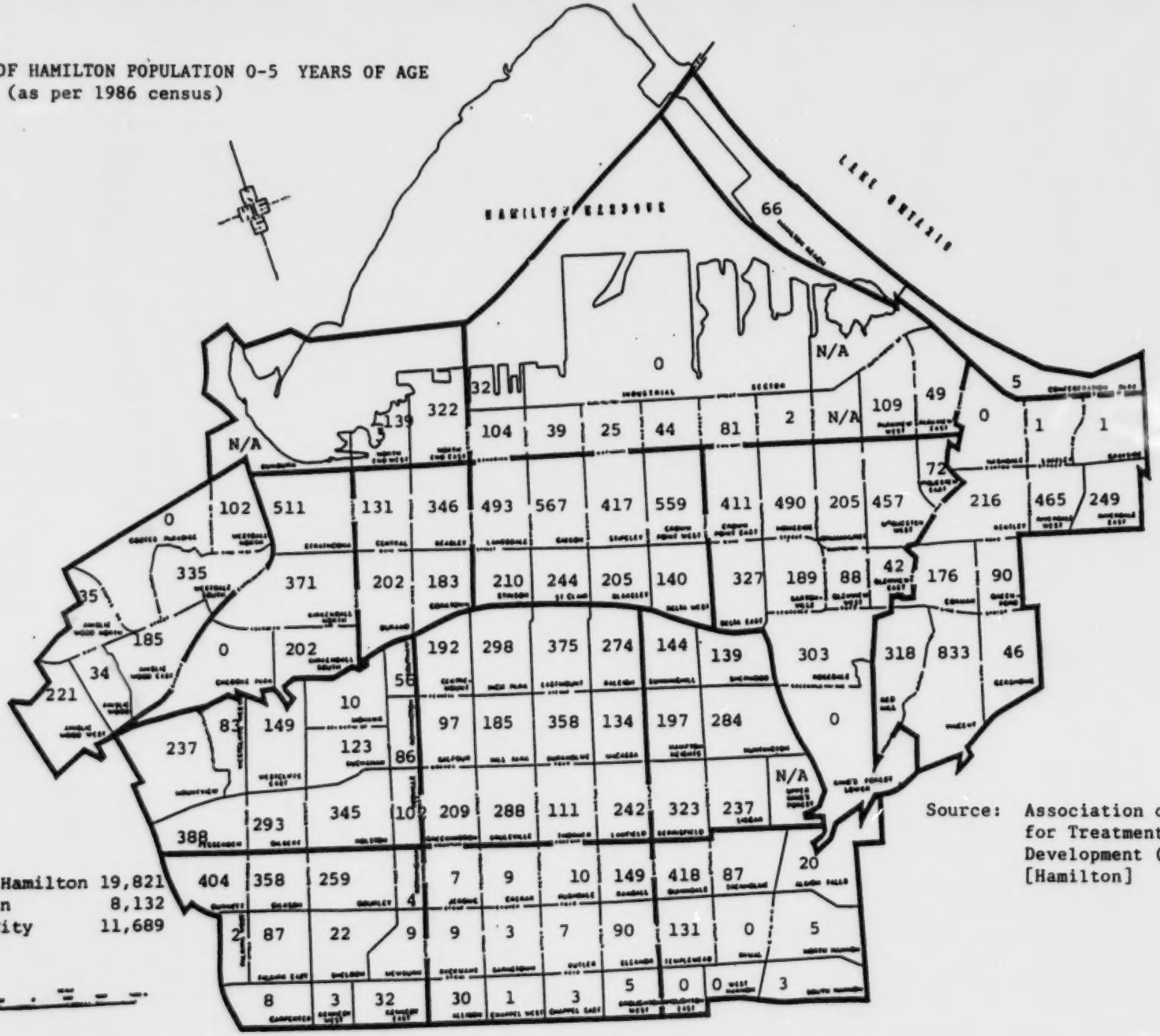
Exhibit 2.10

Age - Sex Pyramid for Hamilton
CENSUS METROPOLITAN AREA
1986 Census of Canada



Source: 1986 Census of Canada. Summary Tabulations - Census Metroplitan Areas - Hamilton, Ontario. Table DM86A01 Statistics Canada July 1987

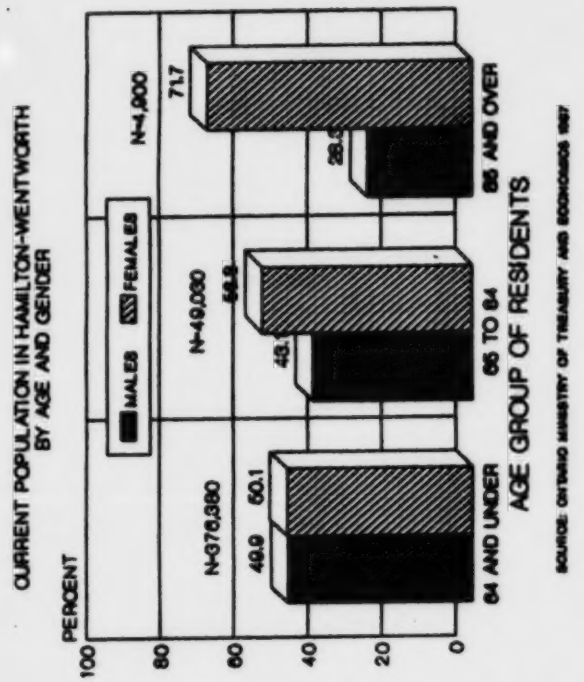
CITY OF HAMILTON POPULATION 0-5 YEARS OF AGE
(as per 1986 census)

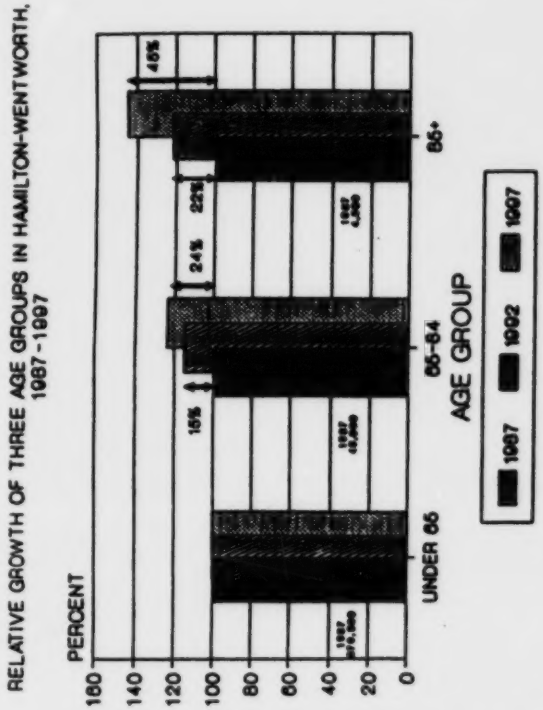


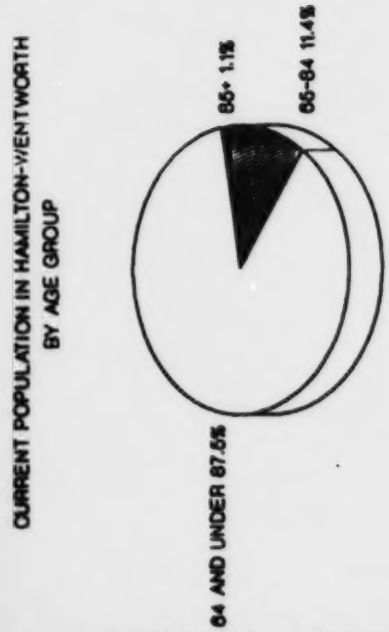
Total:

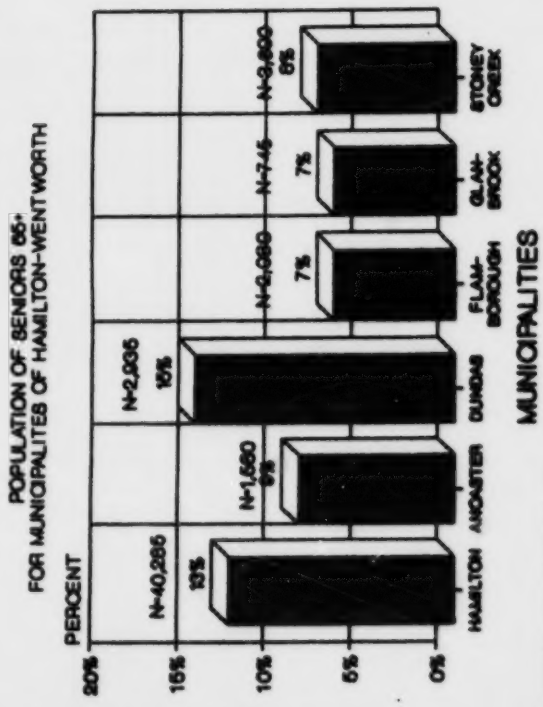
City of Hamilton	19,821
Mountain	8,132
Lower City	11,689

Source: Association of Agencies for Treatment and Development (A.A.T.D.) [Hamilton]









Reprinted in: German, C. and Davis, C. 1988. Services for Seniors Study. Mapping the Way to the Future for the Elderly. Final Report (draft). Hamilton: District Health Council and Regional Municipality.

POPULATION 65 YEARS AND OVER

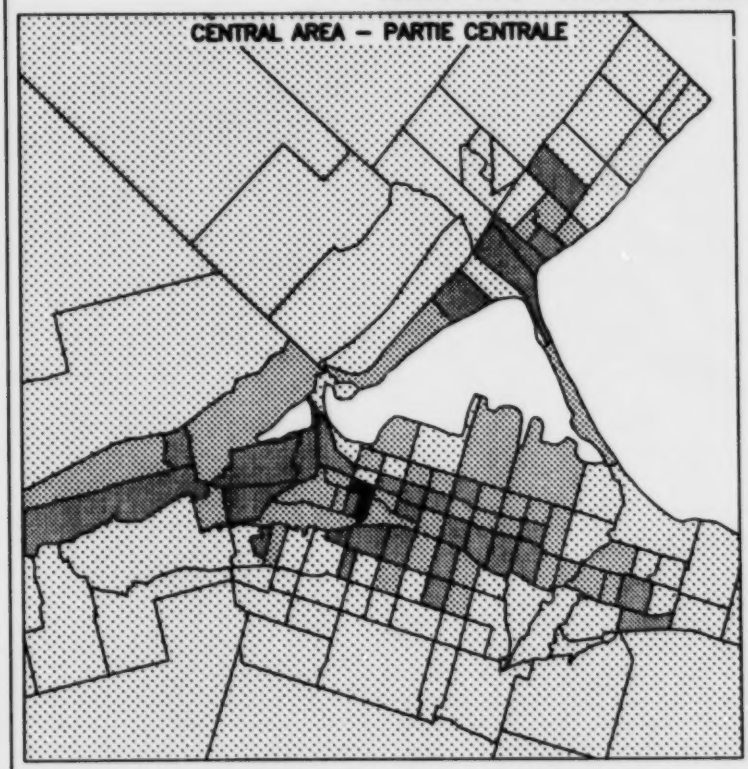
Persons 65 years of age and over are expressed as a percentage of the total population.

POPULATION DE 65 ANS ET PLUS

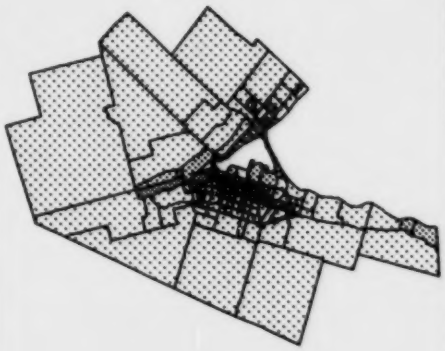
Le nombre de personnes de 65 ans et plus est exprimé en pourcentage de la population totale.

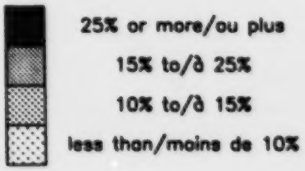
HAMILTON

CENSUS TRACTS – SECTEURS DE RECENSEMENT



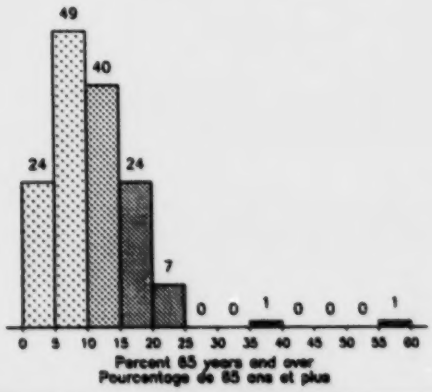
CMA – RMR





NUMBER OF TRACTS BY PERCENT 65 YEARS AND OVER
NOMBRE DE SECTEURS SELON LE POURCENTAGE DE 65 ANS ET PLUS

146 tracts/secteurs



COMPARATIVE FIGURES
CHIFFRES COMPARATIFS

HAMILTON (CMA – RMR)	10.2%
ONTARIO	10.1%
CANADA	9.7%

SOURCE: 1981 CENSUS OF CANADA
PRODUCED BY STATISTICS CANADA.

SOURCE: RECENSEMENT DU CANADA DE 1981
ÉTABLIE PAR STATISTIQUE CANADA.

From: Metropolitan Atlas Series - Hamilton. Ministry of Supply and Services: Catalogue 99-928. [July 1984]

Exhibit 2.14

REGION OF HAMILTON-WENTWORTH
ASSESSED POPULATION BY AREA MUNICIPALITY

MUNICIPALITY	1973	1974	1975	1976	1977	1978 [a]	1979	1980	1982	1985	1988
Hamilton	305,382	306,671	311,886	312,162	311,907	307,964	306,538	306,640	308,102	307,690	
Ancaster	14,632	14,347	14,334	14,180	14,118	14,073	14,107	14,294	14,733	16,542	
Dundas	18,640	19,078	19,315	19,212	19,328	19,129	19,266	19,501	19,699	20,081	
Stoney Creek	28,360	29,256	30,011	30,366	32,099	32,628	33,896	35,639	37,481	41,964	
Flamborough	21,870	22,557	22,863	23,364	23,867	23,747	24,017	24,234	24,575	25,541	
Glanbrook	9,980	10,023	10,057	10,047	10,039	9,945	9,934	9,737	9,585	9,446	
Hamilton-Wentworth Region	398,864	401,932	408,466	409,331	411,358	407,486	407,758	410,045	414,175	421,264	
Avg. Annual Change		3,068	6,534	865	2,027	-3,872	272	2,287	2,065	2,363	
Avg. Annual % Change [b]		0.77%	1.63%	0.21%	0.50%	-0.94%	0.07%	0.56%	0.50%	0.57%	

SOURCE: MINISTRY OF REVENUE, ASSESSMENT SERVICES DIVISION AND
HAMILTON-WENTWORTH PLANNING AND DEVELOPMENT DEPARTMENT
May 1988

Notes: a Change in enumeration methodology may account for some of the 'observed' population decline
Note also that enumeration periods are not consistently spaced in time (not always 12 month gap)

b Based on previous 12 months

Exhibit 2.15

POPULATION AND POPULATION SHARES
HAMILTON-WENTWORTH AND AREA MUNICIPALITIES, 1971-1986

POPULATION / MUNICIPAL SHARE %	HAMILTON	ANCASTER	FLAMBOROUGH	DUNDAS	STONEY CREEK	GLANBROOK	HAMILTON-WENTWORTH
1971	309173	15087	20930	18740	27373	9936	401239
	77.1	3.8	5.2	4.7	6.8	2.5	100.0
1976	312003	14255	23580	19179	30294	10179	409490
	76.2	3.5	5.8	4.7	7.4	2.5	100.0
1981	306434	14428	24470	19586	36762	9765	411445
	74.5	3.5	5.9	4.8	8.9	2.4	100.0
1986	306728	17264	26142	20118	43554	9592	423398
	72.4	4.1	6.2	4.8	10.3	2.3	100.0

NOTE: Population figures are based on current boundaries
NOTE: Municipal shares may not add to 100 due to rounding
SOURCE: Statistics Canada, Census of Canada

Reprinted in: Hamilton-Wentworth Regional Planning and Development Department, Regional Population Projections Interim Report, 1988, (p. 5).

Exhibit 2.16

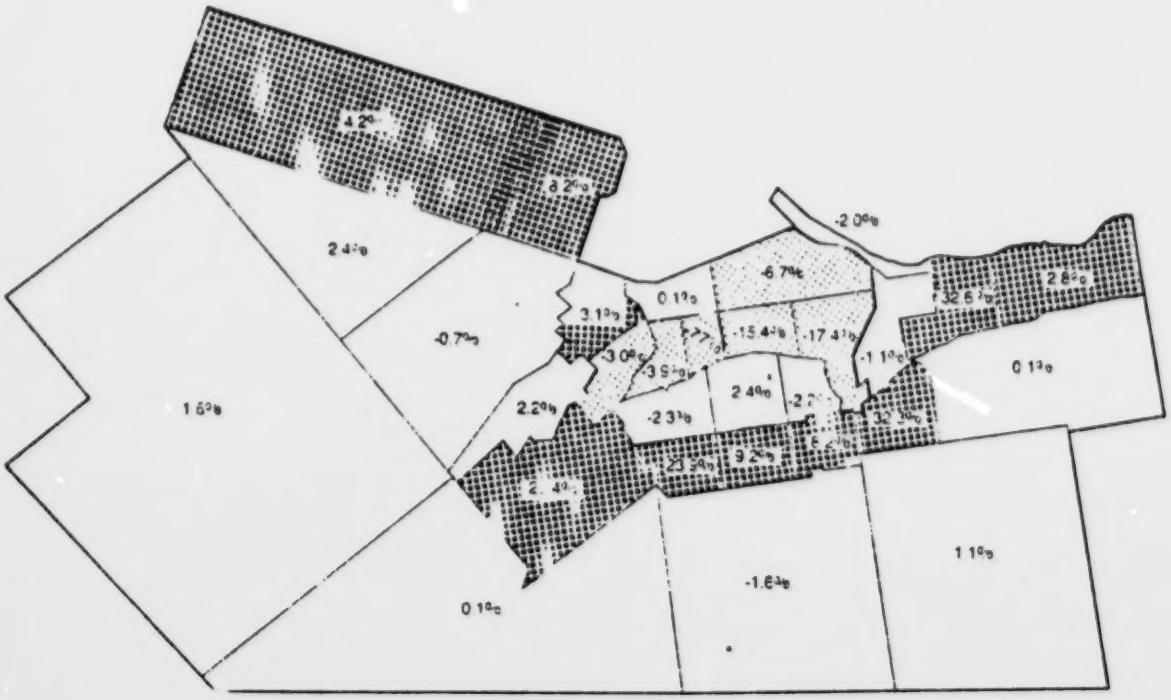
AVERAGE ANNUAL GROWTH RATES
HAMILTON-WENTWORTH AND AREA MUNICIPALITIES, 1971-1986

MUNICIPALITY	1971-76	1976-81	1981-86
Ancaster	-1.13%	0.24%	3.58%
Dundas	0.46%	0.42%	0.54%
Flamborough	2.38%	0.74%	1.32%
Glanbrook	0.48%	-0.83%	-0.36%
Hamilton	0.18%	-0.36%	0.02%
Stoney Creek	2.03%	3.86%	3.38%
Hamilton-Wentworth	0.41%	0.10%	0.57%

NOTE: Growth rates are based on current boundaries
SOURCE: Statistics Canada, Census of Canada

Exhibit 2.17

SHARE OF REGIONAL POPULATION GROWTH FROM 1982 TO 1985



SHARE OF GROWTH FROM 1982 TO 1985

STABLE SHARE	DECREASING SHARE	INCREASING SHARE
> -2.5% < 2.5%	≤ -2.5%	≥ 2.5%

Source: Ministry of Revenue, Assessment Services Division and The Hamilton-Wentworth Planning and Development Department.

Reprinted in: Hamilton-Wentworth Planning & Development Department Strategic Planning Division, Greater Hamilton Population Trends. Demographics Report 87-1.

1986 CENSUS POPULATION (HAMILTON-WENTWORTH) BY SELECTED MOTHER TONGUE, GENDER AND CENSUS SUBDIVISION (MUNICIPALITY)

CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU

1986 CENSUS FILE: MT86A01
POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%

MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	423400	206320	217075
SINGLE RESPONSES.....	404805	196935	207870
ENGLISH.....	326190	158150	168040
FRENCH.....	5175	2490	2685
NON-OFFICIAL LANGUAGES...	73435	36285	37150
ABORIGINAL LANGUAGES.....	185	95	95
ITALIAN.....	21160	10735	10430
PORTUGUESE.....	5105	2565	2540
SPANISH.....	1075	535	540
GERMAN.....	6530	3055	3475
YIDDISH.....	170	85	85
DUTCH.....	3935	1925	2010
UKRAINIAN.....	4090	1985	2105
RUSSIAN.....	270	105	165
POLISH.....	5555	2610	2945
FINNISH.....	125	50	75
HUNGARIAN.....	3055	1495	1555
GREEK.....	1825	935	885
ARABIC.....	515	285	235
PUNJABI.....	710	355	350
CHINESE.....	2275	1130	1145
VIETNAMESE.....	595	305	290
TAGALOG, PHILIPINO.....	500	180	315
OTHER LANGUAGES.....	15760	7860	7905
MULTIPLE RESPONSES.....	18595	9390	9205

23DEC87

CENSUS SUBDIVISION: 18 HAMILTON

CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU

1986 CENSUS FILE: MT86A01
POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%

MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	306730	148100	158630
SINGLE RESPONSES.....	292025	140745	151280
ENGLISH.....	230905	110805	120100
FRENCH.....	4185	2030	2155
NON-OFFICIAL LANGUAGES...	56935	27915	29020
ABORIGINAL LANGUAGES.....	165	80	85
ITALIAN.....	17010	8545	8470
PORTUGUESE.....	4845	2420	2420
SPANISH.....	960	475	480
GERMAN.....	4255	1930	2325
YIDDISH.....	145	70	75
DUTCH.....	1770	830	940
UKRAINIAN.....	3165	1510	1655
RUSSIAN.....	200	80	120
POLISH.....	4505	2100	2400
FINNISH.....	100	35	55
HUNGARIAN.....	2480	1210	1270
GREEK.....	1610	820	785
ARABIC.....	445	245	200
PUNJABI.....	485	240	235
CHINESE.....	2035	1010	1025
VIETNAMESE.....	575	290	280
TAGALOG, PHILIPINO.....	430	165	265
OTHER LANGUAGES.....	11775	5840	5935
MULTIPLE RESPONSES.....	14705	7350	7355

23DEC87

CENSUS SUBDIVISION: 3 STONEY CREEK

CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU

1986 CENSUS FILE: MT86A01
POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%

MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	43550	21725	21830
SINGLE RESPONSES.....	41055	20410	20645
ENGLISH.....	31425	15525	15895
FRENCH.....	490	250	240
NON-OFFICIAL LANGUAGES...	9145	4635	4510
ABORIGINAL LANGUAGES.....	10	10	5
ITALIAN.....	3200	1655	1545
PORTUGUESE.....	85	45	40
SPANISH.....	65	35	35
GERMAN.....	645	320	330
YIDDISH.....	0	0	0
DUTCH.....	480	240	235
UKRAINIAN.....	495	255	240
RUSSIAN.....	15	5	10
POLISH.....	645	315	335
FINNISH.....	10	0	10
HUNGARIAN.....	245	125	125
GREEK.....	120	65	60
ARABIC.....	60	25	30
PUNJABI.....	165	85	80
CHINESE.....	85	45	35
VIETNAMESE.....	5	5	5
TAGALOG, PHILIPINO.....	40	15	20
OTHER LANGUAGES.....	2770	1390	1375
MULTIPLE RESPONSES.....	2500	1315	1180

23DEC87

Source: Ethnocultural Data Base, Ontario Ministry of Citizenship
[5th Floor, 77 Bloor W., Toronto, M7A 2R9; 416-965-5280]

1986 CENSUS POPULATION (HAMILTON-WENTWORTH) BY SELECTED MOTHER TONGUE, GENDER AND CENSUS SUBDIVISION (MUNICIPALITY)

CENSUS SUBDIVISION: 14 ANCASTER

CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU

1986 CENSUS FILE: MT86A01
POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%

MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	17260	8695	8570
SINGLE RESPONSES.....	16950	8530	8420
ENGLISH.....	14870	7490	7385
FRENCH.....	95	40	55
NON-OFFICIAL LANGUAGES...	1985	1005	980
ABORIGINAL LANGUAGES.....	0	0	0
ITALIAN.....	295	160	135
PORTUGUESE.....	10	10	5
SPANISH.....	15	10	10
GERMAN.....	390	200	195
YIDDISH.....	5	0	0
DUTCH.....	450	225	225
UKRAINIAN.....	155	75	80
RUSSIAN.....	5	5	0
POLISH.....	120	60	60
FINNISH.....	5	5	0
HUNGARIAN.....	80	45	35
GREEK.....	20	10	15
ARABIC.....	0	5	0
PUNJABI.....	10	5	5
CHINESE.....	80	35	45
VIETNAMESE.....	5	5	0
TAGALOG, PHILIPINO.....	10	5	5
OTHER LANGUAGES.....	305	155	150
MULTIPLE RESPONSES.....	315	165	150

23DEC87

CENSUS SUBDIVISION: 26 DUNDAS

CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU

1986 CENSUS FILE: MT86A01
POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%

MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	20115	9570	10550
SINGLE RESPONSES.....	19780	9400	10380
ENGLISH.....	17900	8500	9400
FRENCH.....	130	50	85
NON-OFFICIAL LANGUAGES...	1755	850	900
ABORIGINAL LANGUAGES.....	0	0	0
ITALIAN.....	205	115	95
PORTUGUESE.....	15	5	10
SPANISH.....	20	5	10
GERMAN.....	480	235	245
YIDDISH.....	25	10	10
DUTCH.....	185	80	95
UKRAINIAN.....	100	40	55
RUSSIAN.....	45	15	30
POLISH.....	90	40	50
FINNISH.....	10	0	0
HUNGARIAN.....	105	55	50
GREEK.....	35	20	15
ARABIC.....	5	5	0
PUNJABI.....	25	10	15
CHINESE.....	55	30	30
VIETNAMESE.....	0	0	0
TAGALOG, PHILIPINO.....	15	0	10
OTHER LANGUAGES.....	350	175	175
MULTIPLE RESPONSES.....	335	170	165

23DEC87

CENSUS SUBDIVISION: 30 FLAMBOROUGH

CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU

1986 CENSUS FILE: MT86A01
POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%

MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	26140	13295	12845
SINGLE RESPONSES.....	25655	13045	12605
ENGLISH.....	22825	11585	11235
FRENCH.....	180	80	100
NON-OFFICIAL LANGUAGES...	2645	1375	1270
ABORIGINAL LANGUAGES.....	0	5	0
ITALIAN.....	260	150	115
PORTUGUESE.....	120	65	
SPANISH.....	10	0	5
GERMAN.....	570	290	285
YIDDISH.....	5	0	0
DUTCH.....	830	430	400
UKRAINIAN.....	130	70	65
RUSSIAN.....	10	5	5
POLISH.....	135	65	70
FINNISH.....	5	0	5
HUNGARIAN.....	80	35	45
GREEK.....	30	20	10
ARABIC.....	0	0	0
PUNJABI.....	25	10	15
CHINESE.....	20	10	10
VIETNAMESE.....	10	10	5
TAGALOG, PHILIPINO.....	10	5	5
OTHER LANGUAGES.....	395	210	180
MULTIPLE RESPONSES.....	490	250	235

23DEC87

Source: Ethnocultural Data Base, Ontario Ministry of Citizenship
[5th Floor, 77 Bloor St.W., Toronto, M7A 2R9; 416-965-5280]

CENSUS SUBDIVISION: 9 GLANBROOK

CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU

1986 CENSUS FILE: MT86A01
POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%

MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	9590	4930	4655
SINGLE RESPONSES.....	9350	4805	4545
ENGLISH.....	8280	4250	4030
FRENCH.....	90	45	45
NON-OFFICIAL LANGUAGES...	975	510	470
ABORIGINAL LANGUAGES.....	5	5	0
ITALIAN.....	185	110	75
PORTUGUESE.....	25	10	10
SPANISH.....	5	0	0
GERMAN.....	190	95	100
YIDDISH.....	0	0	5
DUTCH.....	220	115	110
UKRAINIAN.....	45	30	15
RUSSIAN.....	5	0	0
POLISH.....	60	30	35
FINNISH.....	0	0	0
HUNGARIAN.....	50	20	25
GREEK.....	10	5	10
ARABIC.....	5	5	0
PUNJABI.....	0	0	0
CHINESE.....	0	5	0
VIETNAMESE.....	0	0	0
TAGALOG, PILIPINO.....	0	0	0
OTHER LANGUAGES.....	170	80	85
MULTIPLE RESPONSES.....	245	135	115

23DEC87

Source: Ethnocultural Database,
Ontario Ministry of Citizenship

ONTARIO SCHOOL POPULATIONS AS OF SEPTEMBER 1986

HEALTH UNIT HAMILTON-WENTWORTH REG. HEALTH UNIT

TYPE OF SCHOOL	TOTAL POPULATION	NO. OF SCHOOLS	NO. OF TEACHERS	
PUBLIC SCHOOLS				
ELEMENTARY	34924	100	1620	
SECONDARY	20322	27	1293	
TRAINABLE RETARDED	318	14	47	
HOSP. ELEMENTARY				
HOSP. SECONDARY				
PROV. CARE AND TREATMENT CENTRES	98	11	13	
SEPARATE SCHOOLS				
ELEMENTARY	16890	62	726	
SECONDARY	6104	7	284	
TRAINABLE RETARDED	116	1	8	
HOSP. ELEMENTARY				
HOSP. SECONDARY				
PROV. CARE AND TREATMENT CENTRES	7	1	1	
PRIVATE SCHOOLS	4270	26	199	
TOTALS	83048	229	4110	

EXTRACTED FROM STATISTICS PRODUCED
BY THE MINISTRY OF EDUCATION

DATA SUPPORT SERVICES
PUBLIC HEALTH BRANCH

Socio-Economic Indicators*

City of Hamilton
1979

Exhibit 2.20

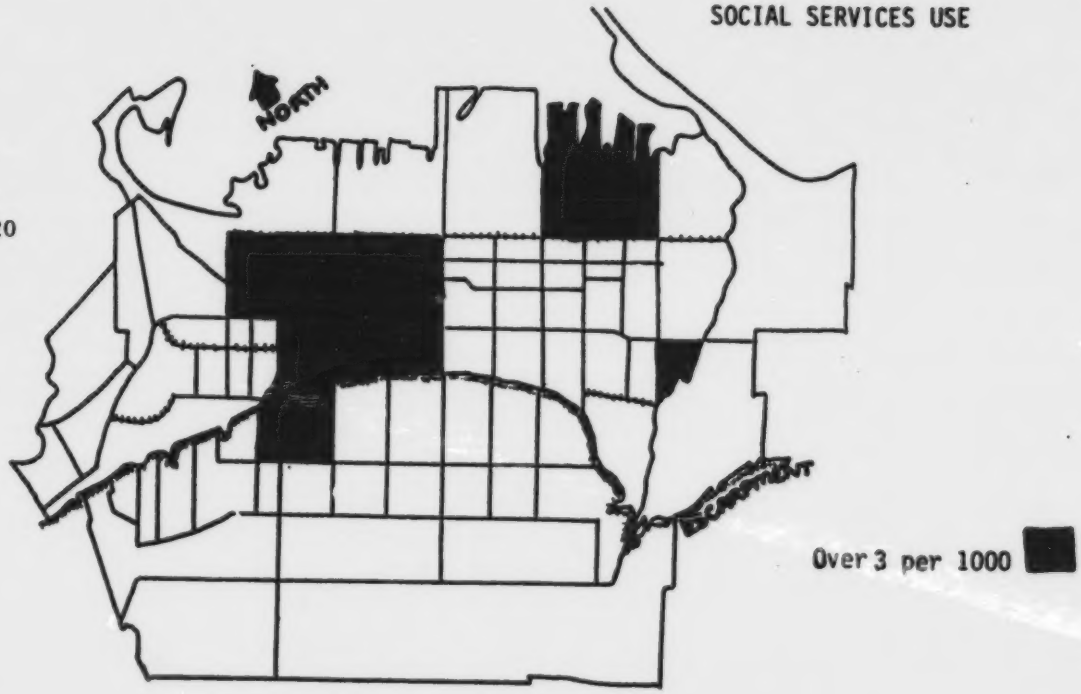
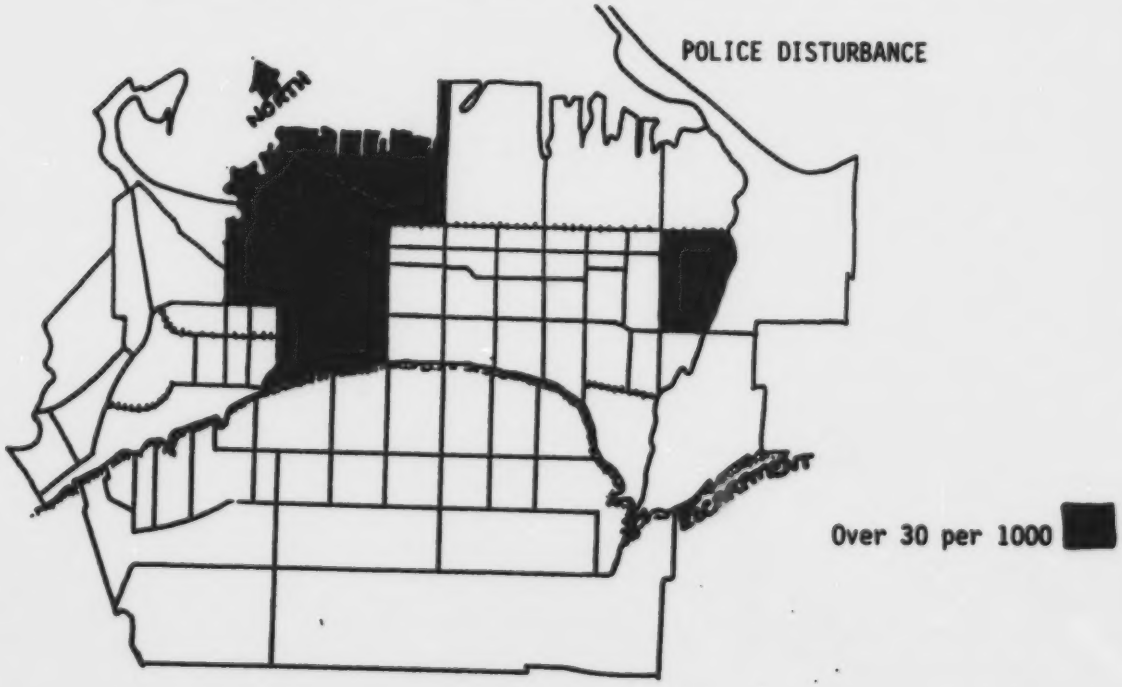


Exhibit 2.21



*Source: McAuley, R.G. and Lee, W.L. 1982. City of Hamilton, Census Tract Maps of Demographic and Service Utilization Data. Hamilton: Hamilton General Hospital, Family Practice Unit.

Exhibit 2.22

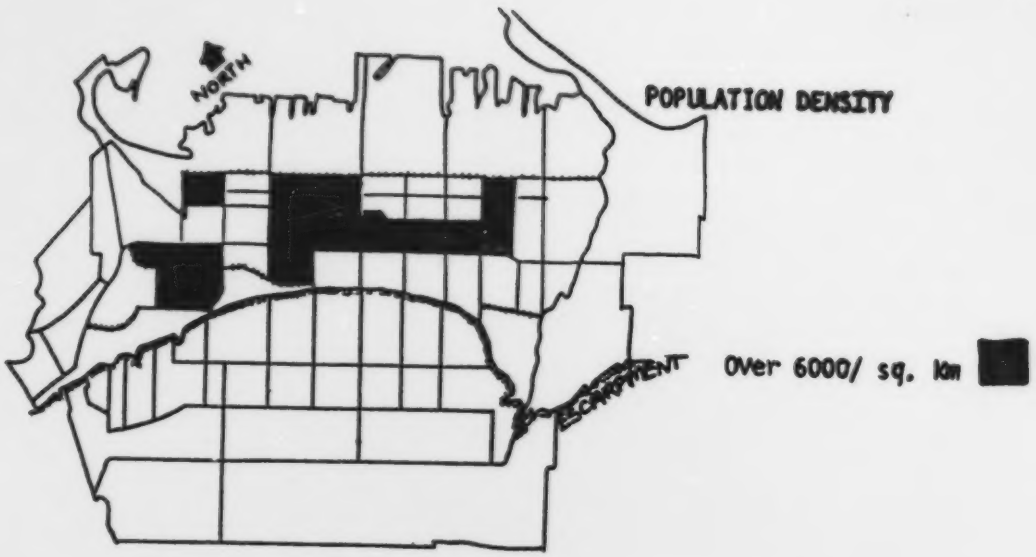


Exhibit 2.23

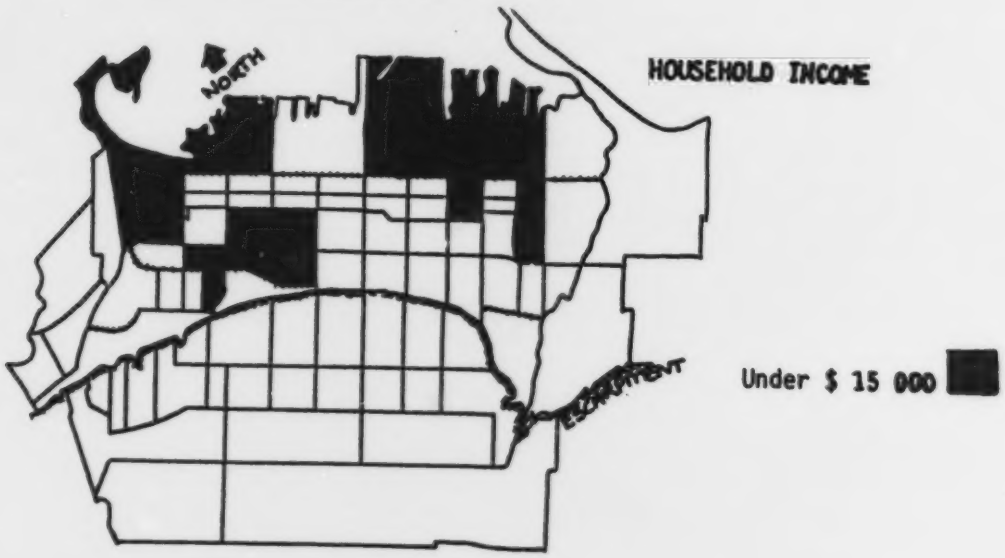


Exhibit 2.24

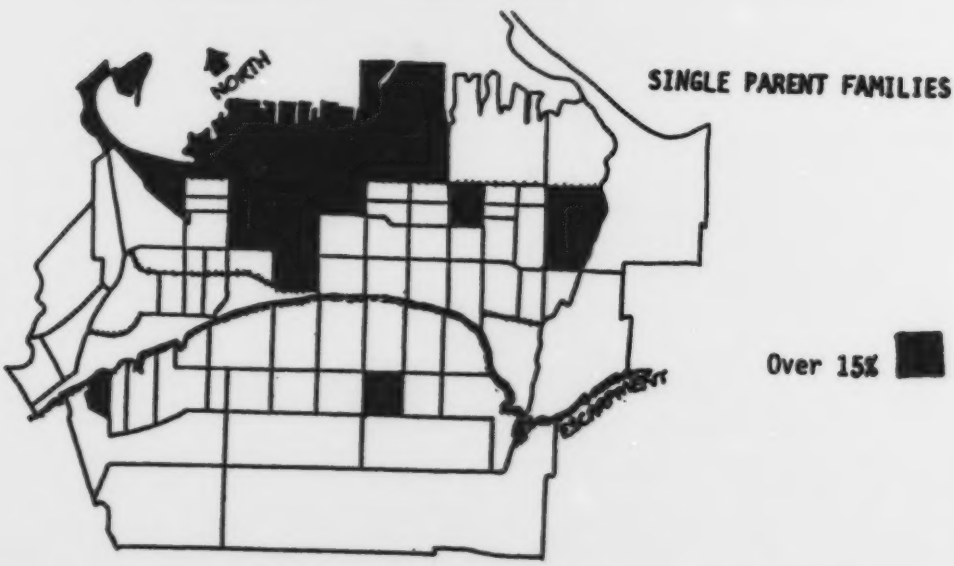


Exhibit 2.25

INCIDENCE OF LOW INCOME, 1980, ECONOMIC FAMILIES

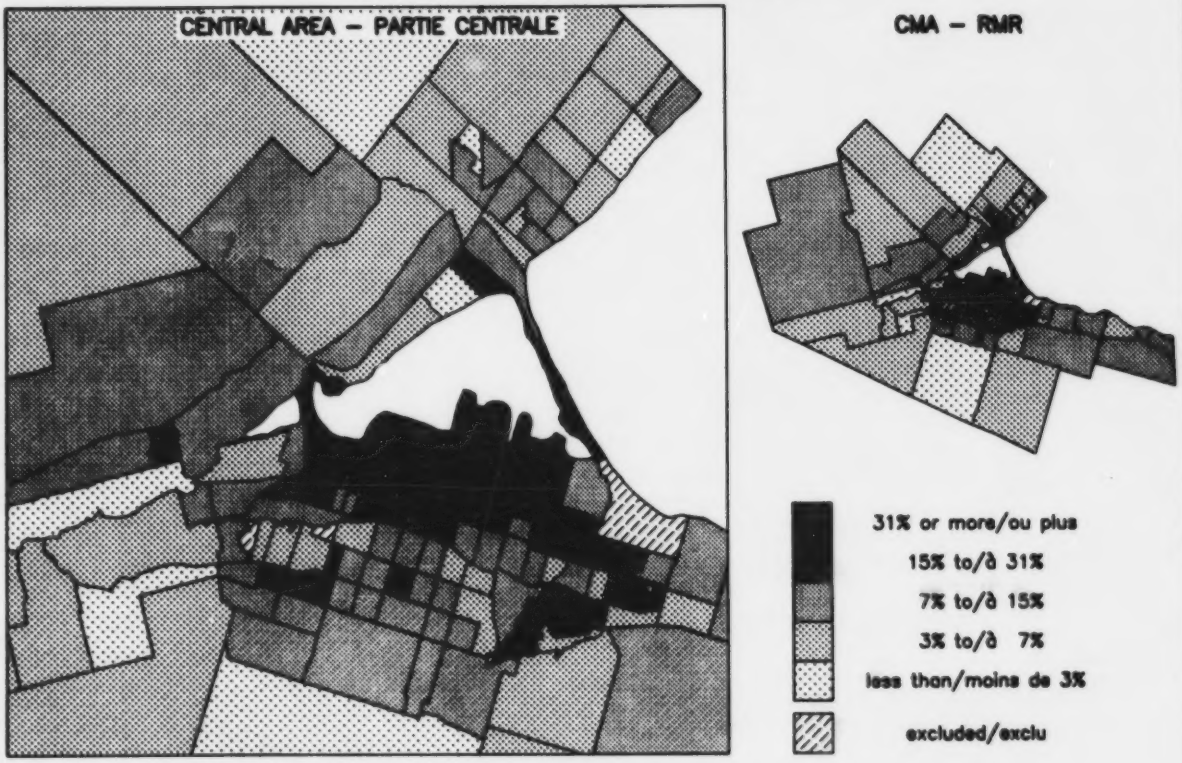
Prevalence of low income is the percentage of economic families in the CT that fall below the low income cut-offs. Data for CTs with a total population of less than 250 persons are excluded. See the introductory text for the universe covered and definitions.

TAUX DES FAIBLES REVENUS, 1980, FAMILLES ÉCONOMIQUES

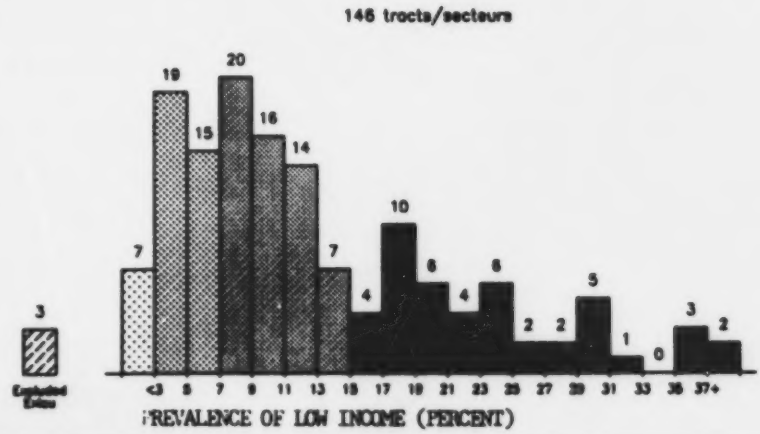
Le taux des faibles revenus correspond au pourcentage de familles économiques dont le revenu est inférieur au seuil de faible revenu. Les données relatives aux SR dont la population totale est inférieure à 250 habitants sont exclues. La description de l'univers et les définitions figurent dans l'introduction.

HAMILTON

CENSUS TRACTS – SECTEURS DE RECENSEMENT



NUMBER OF TRACTS BY PREVALENCE OF LOW INCOME, 1980



COMPARATIVE FIGURES
CHIFFRES COMPARATIFS

HAMILTON (CMA – RMR)	12.3%
ONTARIO	11.4%
CANADA	13.0%

SOURCE: 1981 CENSUS OF CANADA
PRODUCED BY STATISTICS CANADA

SOURCE: RECENSEMENT DU CANADA DE 1981
ÉTABLIE PAR STATISTIQUE CANADA

From: Metropolitan Atlas Series - Hamilton. Ministry of Supply and Services: Catalogue 99-928. [July 1984]

SELECTED HEALTH CARE PERSONNEL, SOUTH AND CENTRAL ONTARIO, 1984

ONTARIO AND LOCAL HEALTH AGENCIES BY REGION	NUMBER OF REGISTERED PROFESSIONAL PERSONNEL					PERSONNEL TO POPULATION RATIO	
			NURSES		NURSING ASSISTANTS		
	PHYSICIANS (1)	DENTISTS (2)	TOTAL (3)	PUB. HLTH (4)	(3)	PHYSICIANS (5)	PUBLIC HEALTH NURSES (5)
ONTARIO	19,616	4,901	70,411	2,222	23,664	456	4,026
SOUTHWEST	2,517	641	11,674	314	4,461	514	4,116
BRUCE	59	18	488	13	212	1,068	4,846
ELGIN-ST.THOMAS	87	22	639	21	450	808	3,349
GREY-OWEN SOUND	105	29	718	21	322	715	3,577
HURON	53	18	369	15	278	1,064	3,759
KENT-CHATHAM	119	47	809	26	321	898	4,108
LAMBTON	117	63	1,043	26	383	1,090	4,904
MIDDLESEX-LONDON	1,365	242	3,786	87	1,367	239	3,748
OXFORD	94	32	709	21	243	921	4,124
PERTH	98	27	538	17	230	741	3,923
WINDSOR-ESSEX	428	143	2,583	67	655	734	4,687
CENTRAL WEST	3,155	846	13,414	376	4,758	553	4,642
BRANT	145	36	768	27	398	731	3,926
HALDIMAND-NORFOLK	78	27	599	24	287	1,303	3,800
HALTON	489	139	2,419	72	502	549	3,726
HAMILTON-WENTWORTH	1,266	224	3,692	90	1,417	837	5,520
NIAGARA	581	184	2,644	76	930	745	4,908
WATERLOO	443	159	2,114	57	671	728	5,596
WELL.-DUFF.-GUELPH	241	77	1,268	38	545	699	5,617
CENTRAL EAST	9,522	2,442	27,429	942	7,634	398	4,021
DURHAM	376	137	2,499	65	924	818	4,734
HALIBURTION, K.,P.R.	144	39	675	37	382	911	3,746
PEEL	636	252	3,671	86	927	870	6,431
PETERBOROUGH	216	47	961	24	361	487	4,379
SIMCOE	313	112	1,783	44	771	753	5,357
METRO TORONTO	7,336	1,719	15,260	636	3,790	294	3,393
EAST YORK	-	-	-	-	-	-	-
ETOBICOKE	-	-	-	-	-	-	-
NORTH YORK	-	-	-	-	-	-	-
SCARBOROUGH	-	-	-	-	-	-	-
TORONTO	-	-	-	-	-	-	-
YORK BOROUGH	-	-	-	-	-	-	-
YORK REGIONAL	581	136	2,388	50	559	593	5,944

Source: Ontario Ministry of Health, Community Health Programs Branch, Statistical Report on Community Health, Ontario, 1984. (Table 7.1)

Contact: Gia Eisenstein (Executive Director, Community Health Programs Branch)

Exhibit 2.27
BED CAPACITY FOR THE ELDERLY
HAMILTON-WENTWORTH, 1987

HOMES FOR THE AGED BED CAPACITY

	Residential (Type 1)	Extended Care (Type 2)	Total Number of Licensed Beds
HAMILTON CITY CORE			
Canadian National Institute for the Blind	59	-	59
HAMILTON MOUNTAIN			
Macassa Lodge	157	209	366
Idlewyld	101	-	101
DUNDAS			
St.Joseph's Villa	200	170	370
Wentworth Lodge	91	119	210
TOTAL CAPACITY	608	498	1106
(Good Shepherd	26)		

NURSING HOME BED CAPACITY

	HAMILTON	Extended Care	Homes for Special Care	Total
1.	Beacon Hill Lodge	248	-	248
2.	Brownstone	105	-	105
3.	Clarion	93	7	100
4.	Grace Villa	160	24	184
5.	Hamilton Convalescent	53	7	60
6.	Parkview Nursing Centre	121	3	124
7.	Proctor Manor	20	3	23
8.	St. Elizabeth's	179	5	184
9.	St. Olga's	50	40	90
10.	Victoria	41	19	60
	Sub-Total	1070	108	1178
	STONEY CREEK			
11.	Brodie's	41	-	41
12.	Pine Villa	33	5	38
13.	Heritage Green	34	-	34
	Sub-Total	108	5	113
	DUNDAS			
14.	Blackadar's	80	-	80
	TOTAL CAPACITY	1258	113	1371

Source: Long Term Care Task Force, Hamilton-Wentworth District Health Council, Inventory of Long Term Care Facilities/Services for the Hamilton-Wentworth Region, July 1987

Exhibit 2.28

HAMILTON-WENTWORTH DISTRICT HOSPITAL BED ALLOCATIONS - 1987

INSTITUTION	ACUTE	PSYCHIATRIC	CHRONIC	GENERAL REHAB.	SPECIAL REHAB.	ALCOHOL TREATMENT	GERIATRIC ASSESSMENT	TOTAL
HAMILTON GENERAL	385	30	--	--	--	--	--	415
HENDERSON GENERAL	475	26	38	75	--	--	--	614
CHEDOKE DIVISION	75	--	120	20 *	91	20	20	346
MCMASTER DIVISION	328	29	35	--	--	--	--	392
ST.JOSEPH'S	523	34	30	20	--	--	--	607
HAMILTON PSYCHIATRIC	--	407	--	--	--	--	--	407
ST.PETER'S HOSPITAL	--	--	284	--	--	--	--	284
TOTAL	1786	526	507	115	91	20	20	3065

* Used as chronic beds.

Source: Long Term Care Task Force Hamilton-Wentworth DistrictHealth Council, Inventory of Long Term Care Facilities/Services for the Hamilton-Wentworth Region, July 1987

Exhibit 2.29

INSTITUTIONAL ACCOMMODATION, 1984

ONTARIO AND LOCAL HEALTH AGENCIES BY REGION	(1) HOSPITAL BEDS					(2) NURSING HOMES (LICENSED BEDS)	HOMES FOR THE AGED	
	ACTIVE EXCLUDING PSYCHIATRIC	REHABILITATION	CHRONIC	PSYCHIATRIC UNITS	PSYCHIATRIC HOSPITALS		EXTENDED CARE BEDS	RESIDENTIAL BEDS
ONTARIO	33,676	1,889	10,790	2,460	4,917	29,486	12,843	15,184
SOUTHWEST	5,263	200	2,227	383	1,060	5,573	1,838	2,618
BRUCE	197		75			246	137	117
ELGIN-ST.THOM.	284		105		524	322	136	275
GREY-G.SOUND	348	23	146	57		451	39	152
HURON	198		85	20		316	211	163
KENT-CHATHAM	375	19	121	30		505	117	291
LAMBTON	392	20	108	24		435	220	167
MIDDLESEX-LON.	1,749	102	877	99	544	1,304	544	568
OXFORD	286		112	19		539	58	200
PERTH	277		141	18		351	102	289
WINDSOR-ESSEX	1,217	36	457	116		1,022	274	468
CENTRAL WEST	6,060	298	1,788	395	600	5,123	2,536	3,132
BRANT	392		145	39		363	244	181
HALD.-NORFOLK	240		96			332	270	179
HALTON	756	35	76	59		450	231	312
HAM-WENTWORTH	1,823	206	527	121	600	1,340	441	687
NIAGARA	1,212	22	418	124		1,034	751	958
WATERLOO	1,053	35	347	52		955	316	537
WELL-DUFF-G.	584		171			649	283	278
CENTRAL EAST	13,712	1,065	4,010	1,078	1,646	11,146	4,531	5,756
DURHAM	787		192	24	504	1,328	489	329
HAL.,K.,P.R.	328		138			665	167	288
PEEL	853		132	89		1,052	239	318
PETERBOROUGH	481		86	52		360	125	322
SIMCOE	742		125	34	542	956	332	384
METRO TORONTO	10,022	1,065	3,217	826	600	5,741	2,840	3,849
EAST YORK	560			48	-	25	236	154
ETOBICOKE	662		128	60	-	723	340	138
NORTH YORK	1,716	484	626	183	-	1,284	633	865
SCARBORO	1,051	84	427	69	-	1,647	372	712
TORONTO	5,491	449	1,665	394	-	1,662	1,059	1,689
YORK BOROUGH	541	78	379	80	-	380		371
YORK REGIONAL	587		123	53		1,044	319	346

Source: Ontario Ministry of Health, Community Health Programs Branch, Statistical Report on Community Health, Ontario, 1984. (Table 7.2)

Contact: Gia Eisenstein (Executive Director, Community Health Programs Branch)

HEALTH CARE COSTS, (1) 1985

ONTARIO AND LOCAL HEALTH AGENCIES BY REGION	ESTIMATED TOTAL EXPENDITURE ($,000)	HOSPITALS AND INSTITUTIONS	PHYSICIANS SERVICES (2)	ONTARIO DRUG BENEFIT PLAN	PUBLIC HEALTH		HOMES FOR SPECIAL CARE	HOME CARE		EXTENDED CARE	ALL OTHER HEALTH COSTS
					EXPENDITURE	PER CAPITA		EXPENDITURE	PER CAPITA (3)		
ONTARIO	8,126,396.8	4,871,680.7	2,398,999.5	289,986.2	88,438.5	9.76	86,226.6	184,488.5	11.53	251,076.9	835,387.1
SOUTHWEST	1,240,248.7	643,821.2	322,722.8	41,983.5	14,088.5	10.78	12,459.9	13,819.3	10.63	36,281.8	155,224.5
BRUCE	30,779.3	15,226.2	8,254.2	2,042.4	682.5	9.66	687.3	884.1	12.90	1,768.4	1,474.2
ELGIN-ST.THOM.	42,978.7	23,282.2	11,394.1	2,279.7	871.5	12.35	677.9	851.6	12.07	1,973.8	1,727.9
GREY-B.SOUND	68,652.8	41,888.9	17,286.4	2,435.4	988.6	13.81	724.2	959.4	12.73	2,188.6	21,758.3
HURON	35,380.3	20,199.9	7,617.8	1,827.8	755.1	13.34	543.5	712.7	12.59	1,582.6	2,141.7
KENT-CHATHAM	74,655.7	39,883.4	20,961.2	3,462.8	1,168.5	10.98	1,029.6	978.3	9.13	2,998.2	5,053.7
LAMBTON	89,287.4	46,588.8	27,874.8	4,133.6	1,291.5	10.10	1,229.1	1,554.3	12.15	3,578.9	3,844.4
MIDDLESEX-LON.	467,992.1	268,768.1	118,959.2	10,572.2	3,718.5	11.26	3,143.6	2,924.9	8.85	9,153.6	50,662.8
OXFORD	54,396.8	29,488.8	14,833.1	2,807.6	958.8	11.02	834.8	818.3	9.39	2,438.9	2,248.5
PERTH	48,161.5	26,244.3	14,489.9	2,162.1	898.5	13.28	642.9	462.2	6.89	1,872.8	1,397.6
WINDSOR-ESSEX	257,590.5	133,366.6	61,853.9	10,179.9	2,779.8	8.88	3,827.8	3,761.5	11.98	8,814.8	13,668.6
CENTRAL WEST	1,363,649.4	695,188.6	418,855.7	54,589.8	16,817.3	9.89	16,826.8	20,984.7	11.91	48,996.7	98,277.8
BRANT	77,988.1	41,725.1	22,884.8	3,436.8	1,165.6	10.98	1,821.9	1,379.3	12.98	2,975.7	4,191.7
HALD.-NORFOLK	45,878.5	28,497.6	12,864.7	2,956.4	1,199.2	13.12	879.1	1,148.9	12.57	2,559.7	3,772.9
HALTON	158,168.5	67,461.1	59,417.5	8,698.3	2,589.2	9.51	2,586.4	1,959.1	7.28	7,531.2	7,917.7
HAM-WENTWORTH	467,869.5	267,958.5	122,322.3	13,688.5	4,287.1	10.14	4,844.1	9,845.1	21.48	11,775.6	34,844.3
NIAGARA	268,975.8	127,597.1	92,141.6	12,893.8	2,851.8	7.63	3,595.8	2,798.8	7.48	10,478.4	9,428.1
WATERLOO	287,472.3	185,326.3	68,333.3	10,342.8	2,461.3	7.58	3,875.2	1,888.8	5.79	8,954.3	7,899.9
WELL-DUFF-G	121,168.7	64,542.9	34,572.3	5,462.8	1,463.1	8.57	1,624.3	2,774.3	16.25	4,729.8	5,999.2
CENTRAL EAST	3,629,768.6	1,754,649.8	1,168,618.6	122,812.1	31,123.5	8.85	36,517.9	35,346.4	9.14	186,333.6	374,374.7
DURHAM	181,457.2	82,665.9	64,682.8	9,975.6	2,498.8	7.78	2,966.2	2,488.9	7.75	8,637.1	7,637.9
HAL. K., P.R.	65,421.8	38,268.8	19,899.4	4,253.9	1,848.3	7.83	1,264.9	1,282.5	9.66	3,683.8	4,537.8
PEEL	275,516.7	97,587.9	95,557.2	17,931.5	3,582.2	6.87	5,331.9	3,938.8	6.82	15,525.5	36,222.5
PETERBOROUGH	97,116.2	58,271.8	32,429.3	3,487.8	1,928.4	18.27	1,813.1	2,222.7	21.86	2,949.9	2,894.8
SIMCOE	141,893.9	66,958.1	44,694.5	7,641.4	2,384.8	9.65	2,272.1	2,787.6	11.67	6,616.1	8,627.3
METRO TORONTO	2,625,551.4	1,365,852.8	868,857.8	69,967.5	17,674.8	8.16	20,804.7	20,688.1	9.55	68,579.6	289,135.7
YORK REGIONAL	142,578.6	61,142.9	51,369.6	9,635.2	2,183.8	6.73	2,865.8	1,954.6	6.82	8,342.4	5,877.9

NOTES: 1. THE ITEMIZED HEALTH CARE EXPENDITURES WERE OBTAINED FROM THE REPORT ENTITLED "HEALTH EXPENDITURES BY COUNTY AND HEALTH DISTRICT, FISCAL YEAR 1984/85" PREPARED BY THE INFORMATION RESOURCES AND SERVICES BRANCH OF THE MINISTRY OF HEALTH.

2. INCLUDES PAYMENTS TO PHYSICIANS AND PRACTITIONERS WHOSE MAILING ADDRESSES WERE NOT WITHIN THE RECOGNIZED REGIONS, COUNTIES AND DISTRICTS OF ONTARIO.

3. THE PER CAPITA RATES WERE CALCULATED BASED ON THE 1985 CENSUS POPULATION PREPARED BY THE MINISTRY OF TREASURY AND ECONOMICS.

4. TOTAL EXPENDITURES INCLUDE ONTARIO PSYCHIATRIC HOSPITAL COSTS OF $257,883.6 WHICH WERE ALLOCATED BY REGION.

Source: Ontario Ministry of Health, Community Health Programs Branch, Statistical Report on Community Health, Ontario, 1984.(Table 8.1)

Contact: Gia Eisenstein (Executive Director, Community Health Programs Branch)

General Health Status

- mortality
- morbidity

Chapter 3

APPROPRIATE USE OF MORBIDITY AND MORTALITY STATISTICS

R. Alder, L. Eastridge

June 1988

Morbidity and mortality statistics are frequently used to compare a given health unit's (or municipality's) disease experience with 1) that of the total province and 2) that of surrounding health units. When, in either application, interest is in factors other than age that may be related to disease occurrence (e.g. environmental pollution), an age-standardized statistic should be employed and the crude rate (TOTAL RATE) avoided. Two different age-standardized statistics are provided in Exhibits 3.8 - 3.13: standardized mortality (or morbidity) ratio (SMR) and standardized mortality (or morbidity) rate (SRATE). The appropriate use of these age-standardized statistics under common applications is discussed below.

1) Comparison of municipality with the province

When comparing Hamilton-Wentworth with the province, either the SMR or the SRATE can be validly used, though the former is to be preferred. The SMR itself is a comparison of a health unit with the province. This statistic is the ratio of the observed total rate in the health unit over the expected total rate. In calculating the expected total rate, the provincial age-specific rates are applied to the municipality's age distribution. Hence, both the observed rate and the expected rate of the SMR are derived from the same age distribution, that of the municipality. The SRATE is based on a different method of age-standardization and, though it is the standardized rate of only the given municipality, it too can be put into a ratio over the provincial observed rate. This ratio is called the comparative mortality figure (CMF) (Fleiss, 1981). In calculating the SRATE, the health unit's age-specific rates are applied to the provincial age distribution. Hence, both the SRATE and the observed provincial rate are derived from the same age distribution, that of the province. Both approaches, therefore, completely adjust for differences in age distribution. the SMR, however, is preferable to the CMF for the following two reasons. First, it weights the age-specific mortality (or morbidity) rates by the municipality's age distribution. The CMF, on the other hand, weights by the provincial age distribution. thus, in the SMR the mortality rates of the health unit are weighted according to the population they actually affect (Kleinman, 1977). Second, the SMR is usually subject to less random error than the CMF. This greater statistical stability derives from the lack of dependence of the SMR on age-specific rates of the health unit which, due to smaller numbers, will be less stable than the provincial rates (Rothman, 1986).

The SMR is typically expressed as the observed number of deaths over the expected number of deaths instead of the observed rate over the expected rate. This is because the denominators of both the observed and expected rates are identical, the total population of Hamilton-Wentworth. Thus, an SMR of 1.00 indicates that the number of deaths observed in the municipality was equal to the number that was expected to occur. In other words, our age-specific mortality rates for the given disease were the same as those of the province. An SMR of 1.40 indicates there were 40% more deaths observed than were expected in the municipality based on baseline provincial values.

The SMR provided is actually a point estimate of a range of SMR values that could have occurred with the given data due to random variability in disease occurrence. One can be 95% confident that this range falls between the lower and upper limits provided (extreme right column in Exhibits 3.8 - 3.13). This 95% confidence interval can be used to determine if the SMR is statistically significant (at alpha = 0.05). If the value of 1.00 does not fall on or between the given lower and upper limits then the SMR is statistically significant. The confidence interval also provides two additional pieces of information. First, it indicates how stable the calculated SMR is: the wider the interval the less stable is the given SMR. Second, the confidence interval indicates the highest and lowest values of the SMR that are consistent with the given data.

Finally, note that within a given municipality the SMRs for various diseases can be compared validly.

2) Comparison with other municipalities/health units

When comparing the mortality (or morbidity) of one health unit with that of another, the SRATE is to be preferred over the SMR. In calculating the expected number (denominator) of the SMR the provincial age-specific rates are applied to the age distribution of each municipality. Hence, the SMRs of various health units are based not on one age distribution, but on a number of possibly different age distributions. In contrast, SRATE is calculated by applying the age-specific rates of each health unit to one age distribution, that of the province. For this reason, two health units with the same set of age-specific rates but different age distributions will have equal SRATEs, but may have unequal SMRs (Kleinman, 1977). A common way of comparing the SRATEs in two health units is to obtain a ratio, called the standardized rate ratio (SRR) (Rothman, 1986). If, for example, the SRR of area A over area B was 2.00, one would say that the rate of the given disease in A is twice that in B.

Summary

When comparing a given municipality (or health unit) with the province, the SMR and its 95% confidence interval is preferable to the SRATE. However, when comparing one health unit with another the SRATE is preferable.

References

Fleiss, J.L. 1981. Statistical methods for rates and proportions. New York: John Wiley & Sons.

Kleinman, J.C. 1977. Age-adjusted mortality indexes for small areas: application to health planning. American Journal of Public Health. 67:834-40.

Rothman, K.J. 1986. Modern epidemiology. Boston: Little, Brown & Co.

Source: adapted from R. Alder and L. Eastridge, 1988, Morbidity and mortality statistics, Hamilton-Wentworth, 1981 & 1986, Toronto: Ontario Ministry of Health.

NOTE: Population figures serving as denominator in rate and ratio calculations for Exhibits 3.8 - 3.13 are found below. (Note that they are slightly at variance with figures provided in Chapter 2.

		Age in years								
Region	Gender	< 1 yr	1-14	15-24	25-44	45-64	65-74	75-84	85+	total
Hamilton-Wentworth	Male	2884	39276	34775	63680	44530	14050	5915	1220	206330
	Female	2785	37630	34505	65420	46610	16845	9945	3345	217085
	Total	5669	76906	69280	129100	91140	30895	15860	4565	423415
Ontario	Male	64659	893581	761310	1433255	904155	269915	116605	24325	4467805
	Female	61615	849570	742460	1466620	931795	332700	186115	62950	4633825
	Total	126274	1743151	1503770	2899875	1835950	602615	302720	87275	9101630

Source: as per above

A note concerning

ONTARIO MINISTRY OF HEALTH CLASSIFICATION OF MORBIDITIES

Note that Chapter headings (17) are groupings of the Ontario Broad Codes (217), which are themselves groupings of the ICD-9 codes. The 15 leading causes of death are clearly time and place dependent, and represent alternative Ministry categorizations of ICD-9 codes. Breakdowns of heading titles are provided below. Classifications of Broad Codes within Chapters (and associated ICD-9 codes) are detailed in a publication titled Revised Ontario Broad Codes from the Data Development and Evaluation Branch of the Ministry of Health

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ONTARIO BROAD CODE CHAPTERS

Chapter	Description
I	Infectious and parasitic diseases
II	Neoplasms
III	Endocrine, nutritional and metabolic diseases and immunity disorders
IV	Diseases of blood and blood-forming organs
V	Mental disorders
VI	Diseases of nervous system and sense organs
VII	Diseases of the circulatory system
VIII	Diseases of the respiratory system
IX	Diseases of the digestive system
X	Diseases of the genitourinary system
XI	Complications of pregnancy, childbirth and the puerperium
XII	Diseases of the skin and subcutaneous tissue
XIII	Diseases of the musculoskeletal system and connective tissue
XIV	Congenital Anomalies
XV	Certain conditions originating in the perinatal period
XVI	Symptoms, signs and ill-defined conditions
XVII	Injury and poisoning
V-codes	Supplementary classification of factors influencing health status and contact with health services
E-codes	Supplementary classification of external causes of injury and poisoning

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15 LEADING CAUSES OF DEATH

Cause#	ICD-9	Description
1.	390-398,410-416,420-429	Diseases of the heart
2.	140-208,230-234	Malignant neoplasms
3.	430-438	Cerebrovascular diseases
4.	E800-E949	Accidents
5.	440-448	Diseases of the arteries, arterioles, and capillaries
6.	480-487	Pneumonia and influenza
7.	E950-E959	Suicide and self-inflicted injury
8.	250	Diabetes mellitus
9.	571	Chronic liver diseases
10.	490-493	Bronchitis, emphysema and asthma
11.	740-759	Congenital anomalies
12.	760-779	Perinatal conditions
13.	401-405	Hypertension
14.	300-316	Neurotic disorders
15.	531-533	Peptic ulcers
16.	Not above	Other causes

Exhibit 3.3

THE 15 LEADING CAUSES OF DEATH IN ONTARIO BY FREQUENCY OF OCCURRENCE : 1986

CAUSE		FREQUENCY
001	DISEASES OF THE HEART	22814
002	MALIGNANT NEOPLASMS	17364
003	CEREBROVASCULAR DISEASE	5283
004	ACCIDENTS	2844
006	PNEUMONIA & INFLUENZA	2408
005	DISEASES OF THE ARTERIES, ETC.	2286
008	DIABETES MELLITUS	1353
007	SUICIDE & SELF-INFLICTED INJ.	1131
009	CHRONIC LIVER DISEASES	878
010	BRONCHITIS, EMPHYSEMA, ASTHMA	679
011	CONGENITAL ANOMALIES	494
013	HYPERTENSION	422
012	PERINATAL CONDITIONS	408
014	NEUROTIC DISORDERS	352
015	PEPTIC ULCERS	281
016	OTHER CAUSES	9667

THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY FREQUENCY OF OCCURRENCE : 1986

CAUSE: MALIGNANT NEOPLASMS

SUPPL CAUSE		FREQUENCY
002	MALIGNANT NEOPLASM OF TREACHEA	4223
003	MALIGNANT NEOPLASM OF BREAST	1700
001	MALIGNANT NEOPLASM OF COLON	1640
005	OTHER NEOPLASMS	9801

** NOTE: SOME SUPPL. CAUSES MAY NOT BE LISTED DUE TO THE FREQUENCY BEING ZERO

THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY FREQUENCY OF OCCURRENCE : 1986

CAUSE: DISEASES OF THE HEART

SUPPL CAUSE		FREQUENCY
001	ACUTE MYOCARDIAL INFARCTION	9772
002	OTHER ISCHAEMIC HEART DISEASE	9323
003	HEART FAILURE	787
004	OTHER HEART	2132

THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY FREQUENCY OF OCCURRENCE : 1986

CAUSE: ACCIDENTS

SUPPL CAUSE		FREQUENCY
001	MOTOR VEH. TRAFFIC ACCIDENT	1083
005	FIRE AND FLAMES	130
004	OTHER TRANSPORT ACCIDENT	95
002	MOTOR VEH.NON-TRAFFIC ACCIDENT	39
003	OTHER ROAD VEHICLE ACCIDENT	9
006	OTHER INJURY/MISFORTUNE	1488

Source: Ontario Ministry of Health, Information & Systems Division. Information Resources & Services Branch

Exhibit 3.4

THE 16 LEADING CAUSES OF DEATH IN ONTARIO BY POTENTIAL YEARS OF LIFE LOST : 1986

CAUSE		# YEARS
002	MALIGNANT NEOPLASMS	274315.2
001	DISEASES OF THE HEART	252460.8
004	ACCIDENTS	85251.0
003	CEREBROVASCULAR DISEASE	54017.8
007	SUICIDE & SELF-INFLICTED INJ.	38531.8
011	CONGENITAL ANOMALIES	31890.5
012	PERINATAL CONDITIONS	30620.0
006	PNEUMONIA & INFLUENZA	22757.4
005	DISEASES OF THE ARTERIES, ETC.	20694.3
009	CHRONIC LIVER DISEASES	16845.1
008	DIABETES MELLITUS	16637.2
010	BRONCHITIS, EMPHYSEMA, ASTHMA	9436.3
014	NEUROTIC DISORDERS	6055.1
013	HYPERTENSION	4388.9
015	PEPTIC ULCERS	3371.1
016	OTHER CAUSES	147282.4

THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY POTENTIAL YEARS OF LIFE LOST : 1986

CAUSE: MALIGNANT NEOPLASMS

SUPPL CAUSE		# YEARS
002	MALIGNANT NEOPLASM OF TREACHEA	63823.4
003	MALIGNANT NEOPLASM OF BREAST	34623.0
001	MALIGNANT NEOPLASM OF COLON	22669.6
005	OTHER NEOPLASMS	153196.8

** NOTE: SOME SUPPL. CAUSES MAY NOT BE LISTED DUE TO THE #YEARS BEING ZERO

THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY POTENTIAL YEARS OF LIFE LOST : 1986

CAUSE: DISEASES OF THE HEART

SUPPL CAUSE		# YEARS
001	ACUTE MYOCARDIAL INFARCTION	123044.8
002	OTHER ISCHAEMIC HEART DISEASE	93253.5
003	HEART FAILURE	6395.2
004	OTHER HEART	29763.7

THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY POTENTIAL YEARS OF LIFE LOST : 1986

CAUSE: ACCIDENTS

SUPPL CAUSE		# YEARS
001	MOTOR VEH. TRAFFIC ACCIDENT	44337.8
005	FIRE AND FLAMES	4021.4
004	OTHER TRANSPORT ACCIDENT	3913.3
002	MOTOR VEH.NON-TRAFFIC ACCIDENT	1808.8
003	OTHER ROAD VEHICLE ACCIDENT	281.4
006	OTHER INJURY/MISFORTUNE	30881.8

Source: Ontario Ministry of Health, Information & Systems Division, Information Resources & Services Branch

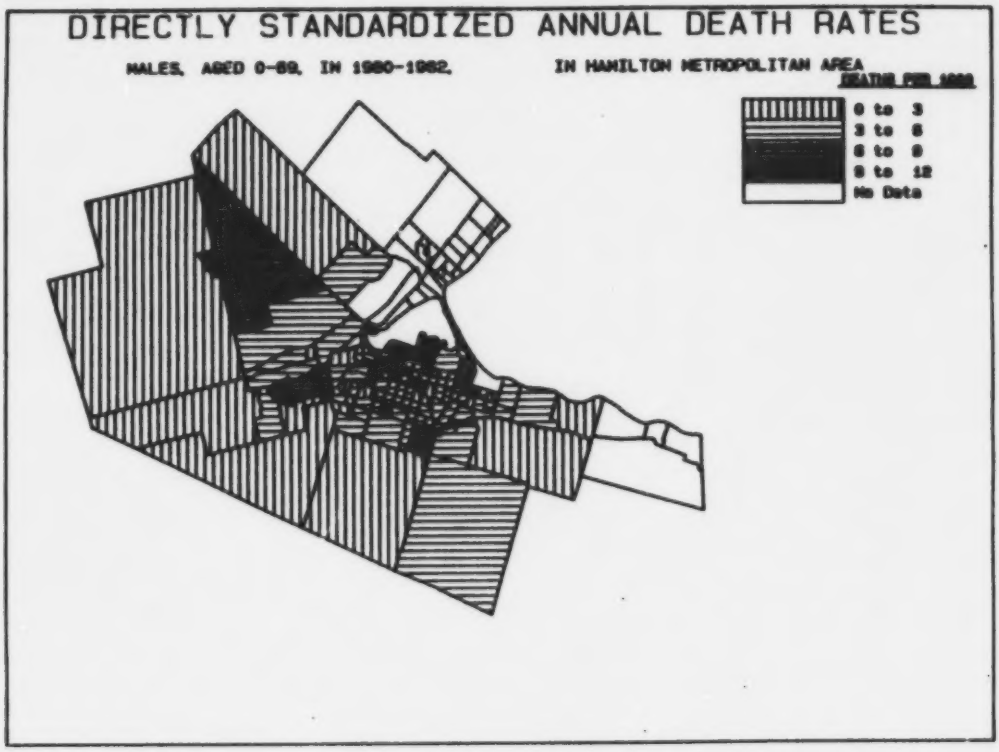
LEADING SUPPLEMENTARY CAUSES OF DEATH IN ONTARIO IN 1986
INDICATOR I - MORTALITY RATES

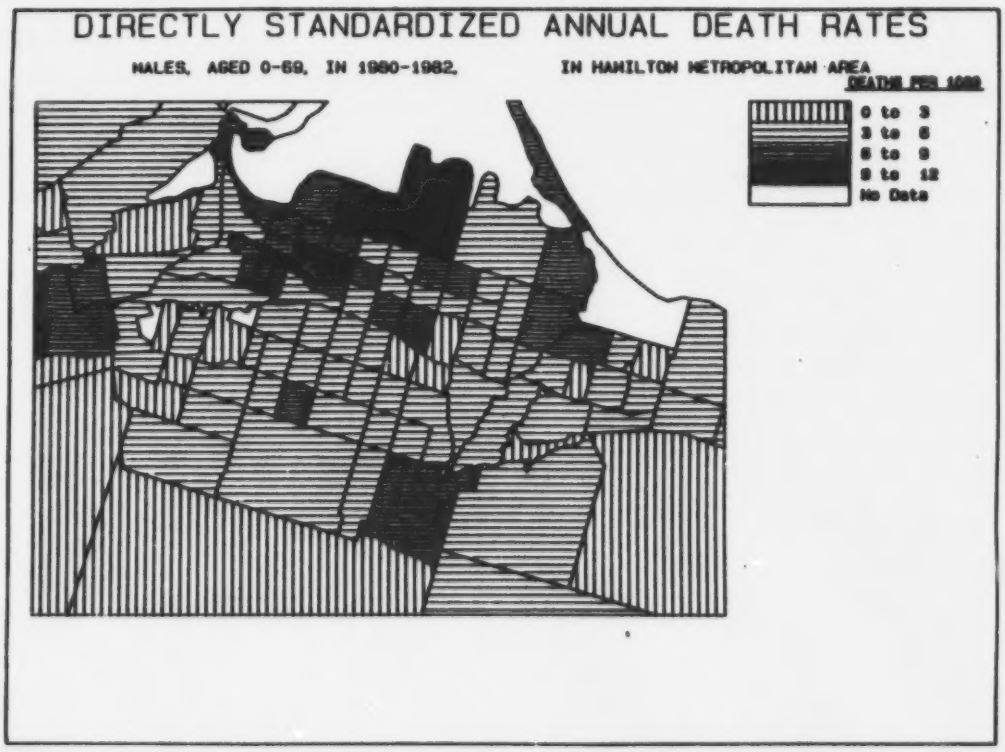
			DISEASES OF THE HEART				MALIGNANT NEOPLASMS					ACCIDENTS					
SUPPL. CAUSES :			001	002	003	004	002	003	001	004	005	001	005	004	002	003	006
REGION	SEX	QUANTITY															
TOTAL - PROVINCE OF ONTARIO																	
	TOTAL	NUMBER	9772	9323	787	2132	4223	1700	1640	0	9801	1083	130	95	39	9	1488
		RATE	1.07	1.02	.09	.23	.46	.19	.18	.00	1.08	.12	.01	.01	.00	.00	.16
		STD.RATE	1.07	1.02	.09	.23	.46	.19	.18	.00	1.08	.12	.01	.01	.00	.00	.16
		SIGN															
	MALE	NUMBER	5813	4707	330	1073	2967	8	819	0	5584	740	80	93	36	6	816
		RATE	1.30	1.05	.07	.24	.66	.00	.18	.00	1.25	.17	.02	.02	.01	.00	.18
		STD.RATE	1.30	1.05	.07	.24	.66	.00	.18	.00	1.25	.17	.02	.02	.01	.00	.18
		SIGN															
	FEMALE	NUMBER	3959	4616	457	1059	1256	1692	821	0	4217	343	50	2	3	3	672
		RATE	.85	1.00	.10	.23	.27	.37	.18	.00	.91	.07	.01	.00	.00	.00	.15
		STD.RATE	.85	1.00	.10	.23	.27	.37	.18	.00	.91	.07	.01	.00	.00	.00	.15
		SIGN															
CENTRAL WEST																	
	TOTAL	NUMBER	1779	2283	133	423	845	333	310	0	1911	206	27	14	7	1	268
		RATE	1.01	1.30	.08	.24	.48	.19	.18	.00	1.08	.12	.02	.01	.00	.00	.15
		STD.RATE	.98	1.25	.07	.23	.47	.18	.17	.00	1.06	.12	.02	.01	.00	.00	.15
		SIGN	-	+													
	MALE	NUMBER	1045	1192	51	194	589	1	162	0	1086	141	21	14	7	1	132
		RATE	1.21	1.38	.06	.22	.68	.00	.19	.00	1.25	.16	.02	.02	.01	.00	.15
		STD.RATE	1.17	1.33	.06	.22	.66	.00	.18	.00	1.22	.16	.02	.02	.01	.00	.15
		SIGN	-	+													-
	FEMALE	NUMBER	734	1091	82	229	256	332	148	0	825	65	6	0	0	0	136
		RATE	.82	1.22	.09	.26	.29	.37	.17	.00	.92	.07	.01	.00	.00	.00	.15
		STD.RATE	.79	1.17	.09	.25	.28	.36	.16	.00	.90	.07	.01	.00	.00	.00	.15
		SIGN		+													
HAMILTON-WENTWORTH,REG.MUN.OF																	
	TOTAL	NUMBER	410	679	37	103	233	80	64	0	509	34	11	3	1	0	69
		RATE	.97	1.60	.09	.24	.55	.19	.15	.00	1.20	.08	.03	.01	.00	.00	.16
		STD.RATE	.87	1.44	.08	.22	.50	.17	.14	.00	1.09	.08	.03	.01	.00	.00	.15
		SIGN	-	+					-			-					
	MALE	NUMBER	246	353	12	48	170	1	26	0	282	25	9	3	1	0	38
		RATE	1.19	1.71	.06	.23	.82	.00	.13	.00	1.37	.12	.04	.01	.00	.00	.18
		STD.RATE	1.08	1.54	.05	.21	.74	.00	.11	.00	1.24	.12	.04	.01	.01	.00	.18
		SIGN	-	+					-								
	FEMALE	NUMBER	164	326	25	55	63	79	38	0	227	9	2	0	0	0	31
		RATE	.76	1.50	.12	.25	.29	.36	.18	.00	1.05	.04	.01	.00	.00	.00	.14
		STD.RATE	.67	1.33	.10	.23	.26	.34	.16	.00	.95	.04	.01	.00	.00	.00	.13
		SIGN	-	+								-					

Source: Ontario Ministry of Health, Information & Systems Division, Information Resources & Services Branch (compiled from Information Retrieval Project JCPA 880614, Reports 1&2)

[Please refer to the preceding page for code labels]

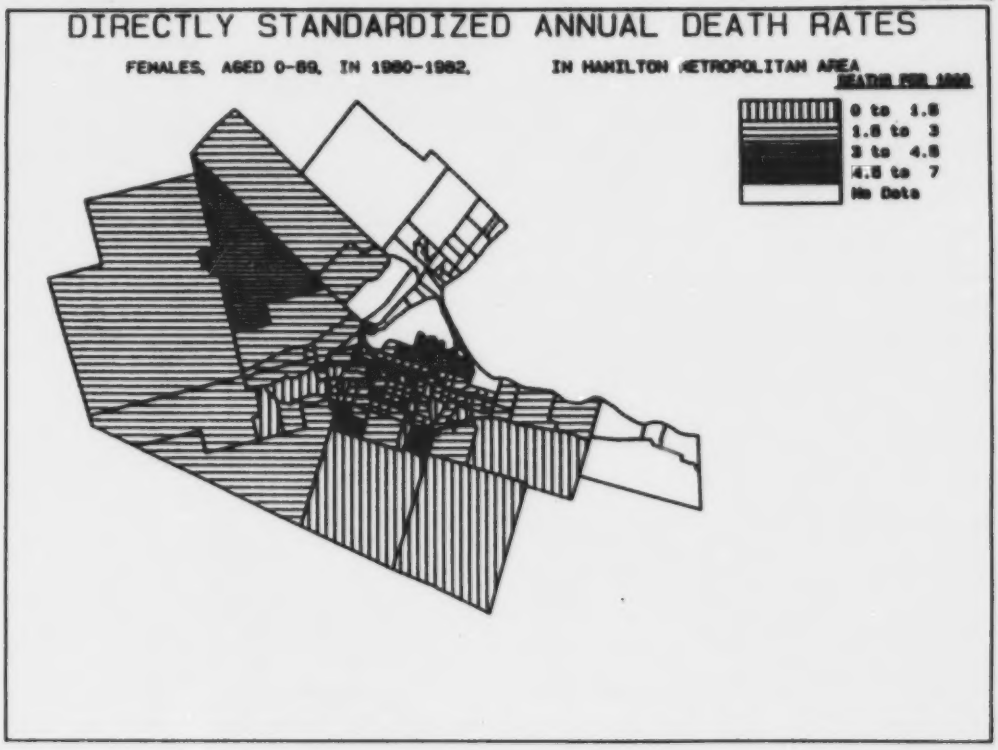
Exhibit 3.6

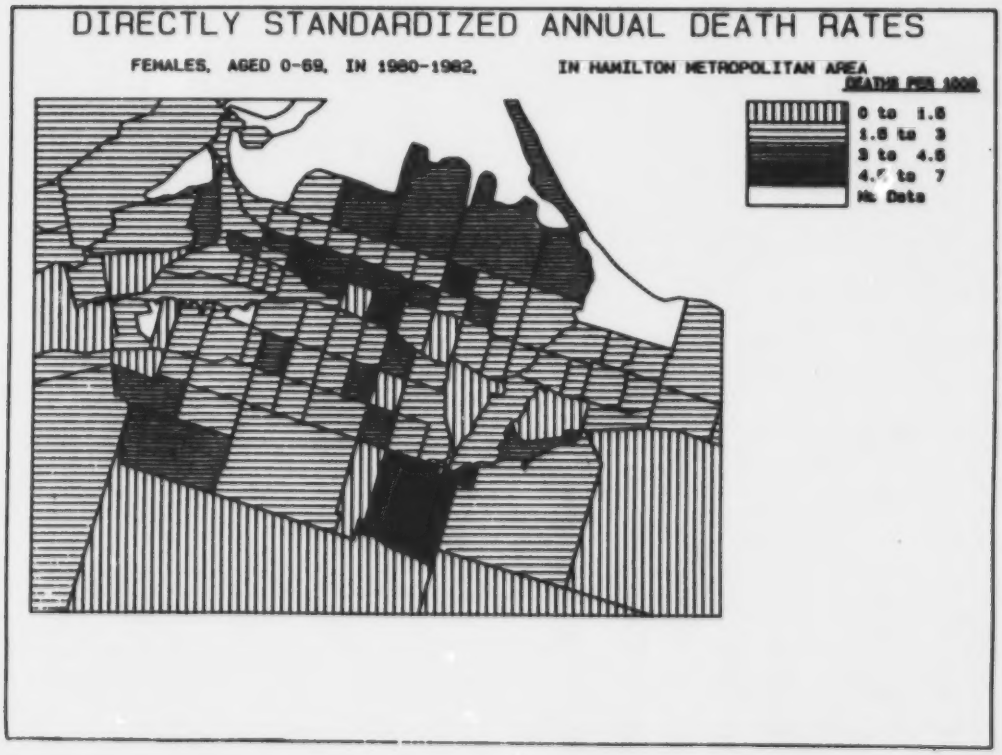




Source: Liaw, K-L; Wort, S.; Hayes, M.V. 1987. Intraurban variation in premature deaths and income inequality: a case study of Hamilton-Wentworth county. McMaster University: QSEP Research Report No. 206. (Tables 6A.6B)

Exhibit 3.7





Source: Liaw, K-L; Wort, S.; Hayes, M.V. 1987. Intraurban variation in premature deaths and income inequality: a case study of Hamilton-Wentworth county. McMaster University: QSEP Research Report No. 206. (Tables 5A, 5B)

Exhibit 3.8

MORTALITY BY AGE GROUP AND CAUSE
HAMILTON-WENTWORTH MALES
1986

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. ..... S.RATE	YPLL LOSING AFTER
MORTALITY CAUSE												
ALL INFECTIOUS DISEASES	DEATHS:	1	0	0	0	5	3	3	1	13	1.43	0.761
	RATE:	0.38	0.00	0.00	0.00	0.11	0.81	0.81	0.86	0.06	0.86	2.445
ALL NEOPLASMS	DEATHS:	0	0	3	19	153	140	120	35	470	1.01	0.984
	RATE:	0.00	0.00	0.09	0.38	3.44	9.96	31.64	20.69	2.32	2.13	1.364
ALL ENDOCRINE, METAL. NUT., + IMM.	DEATHS:	1	0	0	0	11	6	7	6	33	0.72	0.502
	RATE:	0.38	0.00	0.00	0.00	0.25	0.57	1.18	4.92	0.16	0.15	1.041
ALL BLOOD DISEASES + S.V.	DEATHS:	0	0	0	2	11	21	10	13	47	1.02	0.861
	RATE:	0.00	0.00	0.00	0.03	0.25	1.49	3.94	12.30	0.32	0.36	1.298
MENTAL DISORDERS	DEATHS:	0	0	0	1	3	1	3	2	10	0.82	0.220
	RATE:	0.00	0.00	0.00	0.02	0.07	0.07	0.31	1.64	0.05	0.05	0.957
ALL N.S. & BENIGN GROWTH	DEATHS:	0	0	3	1	7	14	10	4	39	1.09	0.778
	RATE:	0.00	0.00	0.09	0.02	0.16	1.00	1.09	3.28	0.19	0.17	1.468
ISCHAEMIC HEART DISEASES	DEATHS:	0	0	0	12	134	261	163	85	997	1.13	1.042
	RATE:	0.00	0.00	0.00	0.19	3.05	18.31	27.36	69.67	2.09	2.64	1.885
ALL OTHER HEART DISEASES	DEATHS:	0	1	1	0	8	19	21	15	65	0.81	0.624
	RATE:	0.00	0.03	0.03	0.00	0.18	1.33	3.52	12.30	0.32	0.29	1.083
CEREBROVASCULAR DISEASES	DEATHS:	0	0	0	1	15	32	30	21	99	0.92	0.783
	RATE:	0.00	0.00	0.00	0.02	0.34	2.25	5.07	17.21	0.48	0.44	1.158
RESPIRATORY DISEASES	DEATHS:	1	0	1	4	21	29	26	33	145	0.98	0.882
	RATE:	0.38	0.00	0.03	0.06	0.47	2.06	9.47	27.05	0.70	0.64	1.125
ALL GASTROINTESTINAL DISEASES	DEATHS:	0	0	0	3	19	21	17	12	82	1.23	0.982
	RATE:	0.00	0.00	0.00	0.05	0.43	1.49	2.07	9.84	0.40	0.37	1.537
ALL GENITOURINARY DISEASES	DEATHS:	0	0	0	0	5	5	13	8	31	1.29	0.833
	RATE:	0.00	0.00	0.00	0.00	0.11	0.36	2.29	6.56	0.15	0.14	1.716
DISEASES OF SKIN/MUSCULOSKELETAL	DEATHS:	0	0	0	0	0	1	3	0	4	0.80	0.210
	RATE:	0.00	0.00	0.00	0.00	0.00	0.07	0.51	0.00	0.02	0.02	0.040
CONG. ANOMALIES/PERINATAL CONDITIONS	DEATHS:	14	1	2	0	0	0	0	0	17	0.77	0.649
	RATE:	4.88	0.03	0.06	0.00	0.00	0.00	0.00	0.00	0.08	0.09	1.232
ILL DEFINED SYMPTOMS, CONDITIONS	DEATHS:	3	0	1	3	11	4	3	2	27	0.94	0.619
	RATE:	1.04	0.00	0.03	0.08	0.25	0.86	0.51	1.64	0.13	0.12	1.378
MOTOR VEHICLE ACCIDENTS	DEATHS:	0	3	14	4	4	0	0	0	25	0.70	0.483
	RATE:	0.00	0.08	0.48	0.06	0.09	0.00	0.00	0.00	0.12	0.12	1.035
ALL OTHER ACCIDENTS	DEATHS:	0	4	4	12	8	10	4	5	48	1.01	0.749
	RATE:	0.00	0.12	0.12	0.19	0.11	0.71	1.01	4.10	0.23	0.23	1.333
SUICIDE	DEATHS:	0	0	4	21	8	2	2	1	38	0.98	0.670
	RATE:	0.00	0.00	0.12	0.33	0.18	0.14	0.34	0.82	0.18	0.18	1.292
ALL OTHER VIOLENT DEATHS	DEATHS:	0	0	3	1	3	2	1	0	10	1.74	0.628
	RATE:	0.00	0.00	0.09	0.02	0.07	0.14	0.17	0.00	0.05	0.06	1.086
TOTAL	DEATHS:	20	11	36	84	428	513	424	248	1888	1.00	0.760
	RATE:	6.93	0.38	1.04	1.32	9.77	36.31	81.83	200.82	0.84	0.17	1.000

Source: Alder R. and Eastridge L. 1988. Morbidity and mortality statistics, Hamilton-Wentworth, 1981 & 1986. Toronto: Ontario Ministry of Health.

NOTE: Please refer to the notes at the beginning of this chapter when consulting Exhibits 3.8-3.13

Also note that the above diagnostic categories are based on diagnostic chapters.

Exhibit 3.9

MORTALITY BY AGE GROUP AND CAUSE
HAMILTON-WENTWORTH FEMALES
1986

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. ..... S.RATE	WHC LOWER NATIONS
MORTALITY CAUSE												
ALL INFECTIOUS DISEASES	DEATHS:	0	0	0	0	3	1	4	5	13	1.51	0.844
	RATE:	0.00	0.00	0.00	0.00	0.06	0.06	0.68	1.49	0.07	0.06	2.491
ALL NEOPLASMS	DEATHS:	0	1	2	20	127	110	106	45	411	1.00	0.906
	RATE:	0.00	0.03	0.06	0.31	2.72	6.83	18.66	13.48	1.09	1.76	1.184
ALL ENDOCRINE, METAL, NUT., + IMM.	DEATHS:	0	0	0	1	5	12	9	4	31	0.62	0.418
	RATE:	0.00	0.00	0.00	0.02	0.11	0.71	0.98	1.20	0.14	0.13	0.867
ALL BLOOD DISEASES + B.V.	DEATHS:	0	0	0	1	1	14	17	27	60	0.83	0.639
	RATE:	0.00	0.00	0.00	0.02	0.02	0.83	1.71	8.07	0.28	0.25	1.079
MENTAL DISORDERS	DEATHS:	0	0	0	0	0	1	1	4	6	0.26	0.095
	RATE:	0.00	0.00	0.00	0.00	0.00	0.06	0.10	1.20	0.03	0.02	0.867
ALL N.S. & DEMOG CHOANS	DEATHS:	0	0	2	1	4	4	0	6	25	0.66	0.427
	RATE:	0.00	0.00	0.06	0.02	0.09	0.24	0.00	1.79	0.12	0.11	0.977
ISCHAEMIC HEART DISEASES	DEATHS:	0	0	0	2	44	88	174	182	490	1.09	0.997
	RATE:	0.00	0.00	0.00	0.03	0.94	5.22	17.50	54.41	2.26	2.02	1.191
ALL OTHER HEART DISEASES	DEATHS:	0	0	0	3	10	10	34	34	91	1.00	0.899
	RATE:	0.00	0.00	0.00	0.05	0.21	0.59	3.42	10.16	0.42	0.36	1.248
CEREBROVASCULAR DISEASES	DEATHS:	0	0	0	3	10	22	46	73	154	0.93	0.794
	RATE:	0.00	0.00	0.00	0.05	0.21	1.31	4.63	21.82	0.71	0.63	1.009
RESPIRATORY DISEASES	DEATHS:	2	1	0	1	11	21	38	61	135	1.14	0.962
	RATE:	0.72	0.03	0.00	0.02	0.24	1.25	3.82	18.24	0.62	0.56	1.386
ALL GASTROINTESTINAL DISEASES	DEATHS:	0	0	0	3	14	13	17	24	71	1.13	0.867
	RATE:	0.00	0.00	0.00	0.05	0.30	0.77	1.71	7.17	0.33	0.30	1.438
ALL GENITOURINARY DISEASES	DEATHS:	2	0	0	0	4	9	12	9	36	1.47	1.823
	RATE:	0.72	0.00	0.00	0.00	0.09	0.53	1.21	2.69	0.17	0.15	2.943
DISEASES OF SKIN/MUSKULOSKELETAL	DEATHS:	0	0	0	0	2	4	3	3	12	0.97	0.881
	RATE:	0.00	0.00	0.00	0.00	0.04	0.24	0.30	0.90	0.06	0.05	1.697
CONG. ANOMALIES/PERINATAL CONDITION	DEATHS:	12	1	0	2	0	0	1	0	16	0.87	0.498
	RATE:	4.31	0.03	0.00	0.03	0.00	0.00	0.10	0.00	0.07	0.08	1.499
ILL DEFINED SYMPTOMS, CONDITIONS	DEATHS:	8	1	0	2	8	2	5	2	29	1.04	0.697
	RATE:	2.87	0.03	0.00	0.03	0.17	0.12	0.50	0.60	0.13	0.12	1.498
MOTOR VEHICLE ACCIDENTS	DEATHS:	0	1	1	6	0	1	0	0	9	0.88	0.898
	RATE:	0.00	0.03	0.03	0.09	0.00	0.06	0.00	0.00	0.04	0.04	1.048
ALL OTHER ACCIDENTS	DEATHS:	0	1	0	3	4	6	2	17	33	0.88	0.613
	RATE:	0.00	0.03	0.00	0.05	0.09	0.36	0.20	3.98	0.15	0.14	1.223
SUICIDE	DEATHS:	0	0	2	2	4	3	0	0	11	0.83	0.414
	RATE:	0.00	0.00	0.06	0.03	0.09	0.18	0.00	0.00	0.05	0.05	1.406
ALL OTHER VIOLENT DEATHS	DEATHS:	0	0	2	3	0	0	0	0	5	1.43	0.463
	RATE:	0.00	0.00	0.06	0.05	0.00	0.00	0.00	0.00	0.02	0.02	3.332
TOTAL	DEATHS:	24	6	9	83	251	321	479	496	1648	1.00	0.939
	RATE:	8.62	0.14	0.06	0.81	5.39	19.06	48.14	148.88	7.38	6.84	1.864

Source: as per Exhibit 3.8
Notes: refer to Exhibit 3.8

Exhibit 3.10

MORTALITY BY AGE GROUP AND CAUSE
HAMILTON-WENTWORTH
1986

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. / S.RATE	95% CONFID. LIMITS
MORTALITY CAUSE												
ALL INFECTIOUS DISEASES	DEATHS:	1	0	0	0	0	4	9	4	20	1.47	0.970
	RATE:	0.15	0.00	0.00	0.00	0.09	0.13	0.57	1.31	0.07	0.06	2.131
ALL NEOPLASMS	DEATHS:	0	1	5	39	220	220	234	60	809	1.00	0.936
	RATE:	0.00	0.01	0.07	0.30	3.07	0.99	14.75	17.92	2.10	1.92	1.046
ALL ENDOCRINE, METAL, NUT., + IMM.	DEATHS:	1	0	0	1	14	20	14	10	44	0.67	0.336
	RATE:	0.15	0.00	0.00	0.01	0.19	0.45	1.01	2.19	0.15	0.14	0.871
ALL BLOOD DISEASES + B.V.	DEATHS:	0	0	0	3	12	35	35	42	127	0.92	0.766
	RATE:	0.00	0.00	0.00	0.02	0.15	1.13	2.21	9.28	0.30	0.27	1.104
MENTAL DISORDERS	DEATHS:	0	0	0	1	3	2	4	4	14	0.38	0.217
	RATE:	0.00	0.00	0.00	0.01	0.03	0.04	0.25	1.31	0.04	0.03	0.614
ALL N.S. & SENSE ORGANS	DEATHS:	0	0	5	2	11	10	10	10	44	0.87	0.670
	RATE:	0.00	0.00	0.07	0.02	0.12	0.50	1.13	2.19	0.15	0.14	1.131
ISCHAEMIC HEART DISEASES	DEATHS:	0	0	0	14	150	209	337	267	1007	1.11	1.042
	RATE:	0.00	0.00	0.00	0.11	1.77	9.35	21.25	58.49	2.57	2.32	1.101
ALL OTHER HEART DISEASES	DEATHS:	0	1	1	3	10	29	35	49	136	0.91	0.777
	RATE:	0.00	0.01	0.01	0.02	0.20	0.94	3.47	10.73	0.37	0.33	1.066
CEREBROVASCULAR DISEASES	DEATHS:	0	0	0	4	25	34	76	94	253	0.93	0.809
	RATE:	0.00	0.00	0.00	0.03	0.27	1.75	4.79	20.59	0.69	0.84	1.068
RESPIRATORY DISEASES	DEATHS:	1	1	1	5	32	80	94	96	280	1.02	0.910
	RATE:	0.83	0.01	0.01	0.04	0.38	1.62	5.93	20.59	0.64	0.60	1.143
ALL GASTROINTESTINAL DISEASES	DEATHS:	0	0	0	6	43	34	34	36	153	1.10	1.000
	RATE:	0.00	0.00	0.00	0.05	0.47	1.10	2.14	7.89	0.36	0.33	1.366
ALL GENITOURINARY DISEASES	DEATHS:	2	0	0	0	9	24	25	17	67	1.33	1.044
	RATE:	0.35	0.00	0.00	0.00	0.10	0.48	1.58	3.72	0.16	0.14	1.609
DISEASES OF SKIN/MUSKULOSKELETAL	DEATHS:	0	0	0	0	2	5	6	3	16	0.93	0.532
	RATE:	0.00	0.00	0.00	0.00	0.02	0.16	0.38	0.66	0.04	0.03	1.507
CONG. ANOMALIES/PERINATAL CONDITION	DEATHS:	26	2	2	2	0	0	1	0	33	0.81	0.568
	RATE:	4.99	0.03	0.03	0.02	0.00	0.00	0.06	0.00	0.08	0.08	1.136
ILL DEFINED SYMPTOMS, CONDITIONS	DEATHS:	11	1	1	5	19	6	8	4	56	0.99	0.762
	RATE:	1.94	0.01	0.01	0.04	0.21	0.19	0.50	0.88	0.13	0.12	1.287
MOTOR VEHICLE ACCIDENTS	DEATHS:	0	4	18	10	4	1	0	0	34	0.68	0.483
	RATE:	0.00	0.00	0.22	0.08	0.04	0.03	0.00	0.00	0.08	0.08	0.983
ALL OTHER ACCIDENTS	DEATHS:	0	7	4	15	9	14	8	22	81	0.98	0.788
	RATE:	0.00	0.09	0.06	0.12	0.10	0.32	0.50	4.82	0.19	0.18	1.187
SUICIDE	DEATHS:	0	0	4	23	12	5	2	1	49	0.92	0.683
	RATE:	0.00	0.00	0.09	0.18	0.13	0.16	0.13	0.22	0.12	0.11	1.214
ALL OTHER VIOLENT DEATHS	DEATHS:	0	0	5	4	3	2	1	0	15	1.42	0.907
	RATE:	0.00	0.00	0.07	0.03	0.03	0.06	0.06	0.00	0.04	0.03	2.673
TOTAL	DEATHS:	44	17	48	137	606	634	963	741	3440	1.01	0.968
	RATE:	7.76	0.22	0.68	1.06	7.83	26.99	60.72	162.32	8.19	7.60	1.075

Source: as per Exhibit 3.8
Notes: refer to Exhibit 3.8

Exhibit 3.11

MORBIDITY BY AGE GROUP AND DIAGNOSTIC CATEGORY
HAMILTON-WENTWORTH MALES
1986

AGE (IN YEARS)		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. - AGE S.RATE	95% LOWER UPPER
MORBIDITY CAUSE												
ALL INFECTIOUS DISEASES	REPS.	117	805	41	67	49	16	32	8	526	1.04	0.952
	RATE:	40.57	5.22	1.10	1.05	0.90	1.14	5.41	6.86	2.55	2.60	1.137
ALL NEOPLASMS	REPS.	2	35	61	183	891	590	380	83	1903	0.91	0.894
	RATE:	0.69	0.09	1.75	2.40	13.27	42.56	64.24	68.63	9.22	8.86	0.960
-LUNG CANCER	REPS.	0	0	0	9	126	124	54	7	320	0.90	0.803
	RATE:	0.00	0.00	0.00	0.14	2.63	8.83	9.13	5.74	1.55	1.42	1.099
-COLORECTAL CANCER	REPS.	0	0	0	4	86	49	36	12	157	0.75	0.640
	RATE:	0.00	0.00	0.00	0.06	1.26	3.49	6.09	9.84	0.76	0.70	0.870
-BREAST CANCER	REPS.	0	0	0	0	0	0	3	0	3	1.17	0.241
	RATE:	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.01	0.01	3.416
ALL ENDOCRINE, METAL. NUT.. + IMM.	REPS.	4	24	33	71	101	79	84	22	348	0.73	0.661
	RATE:	1.39	0.61	0.95	1.11	2.27	5.62	9.13	16.03	1.68	1.60	0.806
-DIABETES MELLITUS	REPS.	0	11	22	46	75	84	32	6	248	0.71	0.626
	RATE:	0.00	0.28	0.63	0.75	1.66	5.84	5.41	4.92	1.20	1.15	0.885
ALL BLOOD DISEASES + BV.	REPS.	3	31	50	115	330	230	100	29	804	0.98	0.917
	RATE:	1.04	0.79	1.67	1.81	6.96	16.37	10.86	23.77	4.28	4.04	1.047
ALL MENTAL DISORDERS	REPS.	1	6	141	384	199	82	69	25	907	0.73	0.683
	RATE:	0.35	0.15	4.05	6.03	4.47	5.84	11.67	20.49	4.40	4.35	0.780
-NEUROSES	REPS.	1	0	14	41	31	10	10	0	107	0.63	0.515
	RATE:	0.35	0.00	0.40	0.64	0.70	0.71	1.69	0.00	0.52	0.51	0.769
-PERSONALITY DISORDERS	REPS.	0	5	63	90	35	19	13	5	230	0.71	0.626
	RATE:	0.00	0.13	1.81	1.41	0.79	1.35	2.20	4.10	1.11	1.11	0.865
ALL N.S. & SENSE ORGANS	REPS.	25	118	50	142	291	301	217	48	1210	0.91	0.884
	RATE:	8.67	3.00	1.44	2.24	6.53	21.42	36.69	36.89	5.86	5.86	0.960
-CATARACTS	REPS.	0	0	0	11	127	172	138	26	474	1.09	0.993
	RATE:	0.00	0.00	0.00	0.17	2.88	12.24	23.33	21.31	2.30	2.10	1.197
ACUTE MYOCARDIAL INFARCTION	REPS.	0	0	0	84	383	198	109	17	675	1.07	0.993
	RATE:	0.00	0.00	0.00	0.88	6.00	13.67	18.43	13.93	3.27	3.03	1.183
OTHER ISCHAEMIC HEART	REPS.	0	0	0	87	616	313	179	37	1234	0.98	0.908
	RATE:	0.00	0.00	0.00	1.37	13.00	22.00	30.26	30.33	5.98	5.85	1.043
ALL OTHER HEART DISEASES	REPS.	4	1	12	70	271	222	168	69	636	0.76	0.700
	RATE:	1.39	0.03	0.28	1.10	4.09	15.60	31.70	56.56	4.06	3.76	0.815
CEREBROVASCULAR DISEASES	REPS.	0	1	2	27	167	144	152	41	557	0.88	0.811
	RATE:	0.00	0.03	0.06	0.42	3.75	11.81	25.70	33.61	2.70	2.48	0.954
ALL RESPIRATORY DISEASES	REPS.	168	779	176	202	280	274	251	78	2228	0.68	0.639
	RATE:	62.41	19.83	5.06	3.17	6.29	19.50	42.43	63.93	10.76	10.66	0.704
-ACUTE RESPIRATORY INFECTION	REPS.	31	92	9	11	5	2	2	1	153	0.64	0.376
	RATE:	10.75	2.34	0.26	0.17	0.11	0.14	0.34	0.82	0.74	0.77	0.515
-CHRONIC TONSILS & ADENOIDS	REPS.	1	462	58	36	4	0	0	0	561	0.98	0.848
	RATE:	0.35	10.84	1.67	0.57	0.09	0.00	0.00	0.00	2.43	2.84	1.006
-PNEUMONIA	REPS.	29	95	14	29	76	68	86	47	442	0.77	0.701
	RATE:	10.06	2.42	0.40	0.46	1.44	4.84	14.54	38.52	2.14	2.06	0.848
-ASTHMA	REPS.	26	186	12	14	29	21	4	1	243	0.46	0.406
	RATE:	12.48	5.21	0.38	0.22	0.45	1.49	0.68	0.82	1.16	1.20	0.582

Source: Alder R. and Eastridge L. 1988. Morbidity an mortality statistics, Hamilton-Wentworth, 1981 & 1986. Toronto: Ontario Ministry of Health.

Note: Please refer to the notes at the beginning of this chapter when consulting Exhibits 3.11-3.13
Figures are based on hospital separations for Hamilton-Wentworth residents, regardless of treatment site (compiled from HMRI database)

Exhibit 3.11 continued...

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R.	SEX LINKED
MORTALITY CAUSE												
ALL GASTROINTESTINAL DISEASES	DEPS.	41	119	849	686	1884	4485	3827	62	8983	0.87	0.817
	RATE:	14.22	3.03	7.16	10.30	23.67	34.82	48.52	30.02	14.31	13.75	0.986
--APPENDICITIS	DEPS.	0	37	66	78	58	18	4	0	217	0.63	0.710
	RATE:	0.00	0.94	1.98	1.15	0.63	0.71	0.66	0.00	1.05	1.06	0.988
--HERNIA	DEPS.	10	21	66	196	386	134	62	4	879	0.97	0.988
	RATE:	3.47	0.53	1.98	3.08	6.67	9.84	10.68	4.92	4.24	4.09	1.036
--CHOLELITHIASIS	DEPS.	0	0	5	60	141	71	50	5	340	1.09	0.988
	RATE:	0.00	0.00	0.14	0.94	3.17	5.05	9.61	4.10	1.65	1.55	1.212
--ENTERITIS/COLITIS	DEPS.	3	17	39	30	59	12	10	1	130	0.41	0.342
	RATE:	1.04	0.43	0.86	0.40	0.65	0.85	1.69	0.82	0.63	0.62	0.492
ALL GENITOURINARY DISEASES	DEPS.	12	73	64	231	561	440	305	58	1744	0.94	0.883
	RATE:	4.16	1.86	2.46	3.63	12.60	31.09	51.56	46.98	8.56	8.06	1.060
--PROSTATE HYPERPLASIA	DEPS.	0	0	0	4	216	270	166	17	675	1.04	0.968
	RATE:	0.00	0.00	0.00	0.06	4.68	19.22	28.46	13.95	3.27	3.18	1.121
ALL DISEASES SKIN/CONNECTIVE/SKELETAL	DEPS.	9	98	223	438	649	239	101	17	1919	1.03	0.967
	RATE:	3.12	2.29	6.41	9.09	13.66	17.01	17.06	13.95	9.38	9.09	1.096
- ARTHRITIS	DEPS.	0	11	83	208	213	109	36	4	684	1.23	1.141
	RATE:	0.00	0.26	2.39	3.27	4.70	7.76	9.67	3.28	3.32	3.23	1.386
CONGENITAL ANOMALIES	DEPS.	168	97	20	24	16	1	2	0	270	0.77	0.679
	RATE:	27.48	2.47	0.58	0.38	0.46	0.07	0.34	0.00	1.31	1.38	0.673
PERINATAL CONDITIONS	DEPS.	500	0	0	0	0	0	0	0	500	0.55	0.503
	RATE:	173.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.42	2.51	0.601
ILL DEFINED SYMPTOMS, CONDITIONS	DEPS.	82	154	78	303	463	196	152	39	1467	0.81	0.761
	RATE:	28.43	3.92	2.04	4.76	10.46	13.95	25.70	31.97	7.11	6.90	0.862
--GENERAL SYMPTOMS	DEPS.	40	95	13	41	99	46	48	12	394	0.84	0.761
	RATE:	13.87	2.42	0.37	0.64	2.22	3.27	8.11	9.84	1.91	1.87	0.927
--RESPIRATORY SYMPTOMS	DEPS.	13	5	3	115	100	53	29	0	318	0.62	0.743
	RATE:	4.51	0.13	0.09	1.81	4.04	3.77	4.90	0.00	1.95	1.86	0.908
TRAUMA	DEPS.	12	286	416	525	274	97	42	37	1789	0.84	0.789
	RATE:	4.16	7.28	11.96	8.24	6.18	6.90	10.46	30.33	8.26	8.30	0.894
OTHER INJ., POISONING	DEPS.	7	49	49	115	173	90	46	9	538	0.99	0.986
	RATE:	2.43	1.25	1.41	1.81	3.89	6.41	7.70	7.38	2.61	2.52	1.082
SUPPLEMENTARY V CODES	DEPS.	2439	43	46	109	181	148	74	18	3225	1.09	1.004
	RATE:	918.68	1.09	1.32	1.71	3.39	10.32	12.81	14.75	15.63	15.95	1.140
OTHER/UNKNOWN	DEPS.	0	0	1	1	0	3	0	0	5	0.17	0.055
	RATE:	0.00	0.00	0.03	0.02	0.00	0.21	0.00	0.00	0.02	0.02	0.396
TOTAL	DEPS.	3746	2111	1760	3986	6434	4177	2760	486	25492	0.00	0.000
	RATE:	1290.09	53.75	50.04	62.59	148.39	297.30	467.96	362.30	124.52	129.01	0.956

Exhibit 3.12
MORBIDITY BY AGE GROUP AND DIAGNOSTIC CATEGORY
HAMILTON-WENTWORTH FEMALES
1986

AGE (IN YEARS): / MORBIDITY CAUSE		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. ..... S.RATE	95% LOWER UPPER
ALL INFECTIOUS DISEASES	DEPS.	61	177	61	72	47	31	31	17	517	0.96	0.878
	RATE:	29.00	4.70	1.77	1.10	1.01	1.04	3.12	5.00	2.30	2.41	1.049
ALL NEOPLASMS	DEPS.	5	38	65	382	777	660	289	60	2104	0.85	0.798
	RATE:	1.00	1.01	1.00	5.84	16.67	27.31	29.06	26.31	9.69	9.20	0.904
—LUNG CANCER	DEPS.	0	0	0	3	53	31	20	4	111	0.69	0.575
	RATE:	0.00	0.00	0.00	0.05	1.14	1.04	2.01	1.20	0.51	0.47	0.606
—COLORECTAL CANCER	DEPS.	0	0	0	3	61	52	40	17	173	0.90	0.776
	RATE:	0.00	0.00	0.00	0.05	1.31	3.09	4.02	5.00	0.80	0.73	1.044
—BREAST CANCER	DEPS.	0	0	0	49	171	82	43	14	359	0.95	0.854
	RATE:	0.00	0.00	0.00	0.75	3.67	4.07	4.32	4.19	1.65	1.55	1.054
ALL ENDOCRINE, METAB. NUT., + IMM.	DEPS.	3	31	24	124	125	91	96	44	538	0.72	0.659
	RATE:	1.00	0.82	0.70	1.90	2.68	5.40	9.65	13.15	2.48	2.37	0.787
— DIABETES MELLITUS	DEPS.	0	21	17	44	86	44	39	9	232	0.84	0.694
	RATE:	0.00	0.54	0.49	0.67	1.84	2.61	3.92	2.69	1.07	1.03	0.635
ALL BLOOD DISEASES + SV.	DEPS.	3	26	25	141	244	154	122	63	780	0.93	0.867
	RATE:	1.00	0.69	0.72	2.16	5.20	9.14	12.27	18.83	3.59	3.41	0.997
ALL MENTAL DISORDERS	DEPS.	1	17	111	318	237	127	117	44	971	0.63	0.592
	RATE:	0.36	0.45	3.22	4.82	5.08	7.54	11.76	13.75	4.47	4.35	0.670
—NEUROSES	DEPS.	0	7	10	85	63	31	19	3	196	0.84	0.686
	RATE:	0.00	0.19	0.52	0.84	1.35	1.04	1.91	0.90	0.90	0.80	0.645
—PERSONALITY DISORDERS	DEPS.	1	6	42	106	53	28	22	4	284	0.63	0.562
	RATE:	0.36	0.21	1.00	1.62	1.14	1.64	2.21	1.20	1.31	1.30	0.706
ALL N.S. & SENSE ORGANS	DEPS.	23	99	50	175	342	367	362	106	1524	0.92	0.864
	RATE:	8.26	2.63	1.48	2.68	7.34	21.79	36.48	31.69	7.02	6.60	0.979
—CATARACTS	DEPS.	0	2	1	9	124	254	266	87	743	1.09	1.012
	RATE:	0.00	0.05	0.03	0.14	2.66	15.08	26.75	26.01	3.42	3.10	1.175
ACUTE MYOCARDIAL INFARCTION	DEPS.	0	0	0	6	68	110	121	40	345	0.95	0.854
	RATE:	0.00	0.00	0.00	0.09	1.46	6.53	12.17	11.96	1.59	1.44	1.056
OTHER ISCHAEMIC HEART	DEPS.	0	1	0	17	240	233	210	74	783	0.95	0.885
	RATE:	0.00	0.03	0.00	0.26	5.15	13.83	21.12	22.12	3.61	3.30	1.010
ALL OTHER HEART DISEASES	DEPS.	0	5	6	46	179	202	316	140	894	0.77	0.721
	RATE:	0.00	0.13	0.17	0.72	3.78	11.99	31.17	44.85	4.12	3.78	0.822
CEREBROVASCULAR DISEASES	DEPS.	1	1	2	22	85	130	189	186	536	0.84	0.769
	RATE:	0.36	0.03	0.06	0.34	1.82	7.72	19.00	31.69	2.47	2.24	0.918
ALL RESPIRATORY DISEASES	DEPS.	101	698	241	222	219	228	186	104	1999	0.71	0.667
	RATE:	36.27	18.55	6.98	3.39	4.70	13.54	18.70	31.09	9.21	9.17	0.758
—ACUTE RESPIRATORY INFECTION	DEPS.	15	42	11	12	8	2	3	5	98	0.39	0.319
	RATE:	5.39	1.12	0.32	0.18	0.17	0.12	0.30	1.49	0.45	0.46	0.476
—CHRONIC TONSILS & ADENOIDS	DEPS.	1	453	142	48	2	1	0	0	647	1.03	0.950
	RATE:	0.36	12.04	4.12	0.73	0.04	0.06	0.00	0.00	2.98	3.12	1.117
—PNEUMONIA	DEPS.	15	67	9	36	59	70	55	42	375	0.73	0.656
	RATE:	5.39	1.78	0.26	0.56	1.27	4.16	5.53	10.54	1.73	1.65	0.812
—ASTHMA	DEPS.	13	91	36	42	36	26	12	1	258	0.49	0.432
	RATE:	4.67	2.42	1.04	0.64	0.73	1.54	1.21	0.30	1.17	1.19	0.956

Source: as per Exhibit 3.11
Notes: as per Exhibit 3.11

Exhibit 3.12 continued...

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. ..... S.RATE	95% LOWER UPPER
MORBIDITY CAUSE												
ALL GASTROINTESTINAL DISEASES	DEPS.	19	68	225	721	737	437	328	121	2676	0.61	0.761
	RATE:	6.82	2.34	6.52	13.62	25.61	25.94	32.98	36.17	12.33	11.91	0.662
-APPENDICITIS	DEPS.	0	36	64	49	30	1	3	1	186	0.98	0.776
	RATE:	0.00	1.61	1.68	0.75	0.64	0.06	0.30	0.30	0.86	0.87	1.044
-HERNIA	DEPS.	2	6	10	64	82	43	27	3	239	0.92	0.811
	RATE:	0.72	0.21	0.29	0.98	1.76	2.58	2.71	0.90	1.10	1.06	1.043
-CHOLELITHIASIS	DEPS.	0	1	46	297	244	121	61	9	779	1.06	0.988
	RATE:	0.00	0.03	1.33	4.54	5.23	7.18	6.13	2.69	3.59	3.51	1.136
-ENTERITIS/COLITIS	DEPS.	7	15	25	46	36	32	23	6	186	0.68	0.614
	RATE:	2.51	0.49	0.72	0.73	0.64	1.90	2.31	2.39	0.87	0.85	0.557
ALL GENITOURINARY DISEASES	DEPS.	13	53	402	1214	626	212	116	37	2674	0.68	0.826
	RATE:	4.67	1.41	11.45	18.56	13.43	12.59	11.66	11.06	12.32	12.28	0.936
ALL COMPLIC. PREGNANCIES	DEPS.	0	7	2761	8541	3	0	0	0	8312	0.99	0.930
	RATE:	0.00	0.19	80.82	84.78	0.06	0.00	0.00	0.00	38.29	39.68	1.083
-NORMAL DELIVERIES	DEPS.	0	0	292	638	1	0	0	0	931	0.63	0.590
	RATE:	0.00	0.00	8.46	9.78	0.02	0.00	0.00	0.00	4.29	4.48	0.673
-COMPLIC. RELATED TO PREGNANCY	DEPS.	0	2	709	1022	0	0	0	0	1783	1.19	1.117
	RATE:	0.00	0.08	22.00	15.62	0.00	0.00	0.00	0.00	8.21	8.48	1.264
-PROBL. WITH DELIVERY	DEPS.	0	1	1304	3225	1	0	0	0	4533	1.09	1.024
	RATE:	0.00	0.03	37.68	49.38	0.02	0.00	0.00	0.00	20.88	21.68	1.168
ALL DISEASES SKIN/MUSKULOSKELETAL	DEPS.	4	94	236	427	637	354	216	67	2015	0.94	0.853
	RATE:	1.44	1.50	6.84	6.53	13.67	21.02	21.72	14.05	9.28	8.96	1.000
-ARTHRITIS	DEPS.	1	18	75	181	255	186	100	18	762	1.09	1.016
	RATE:	0.36	0.48	2.17	1.84	5.47	11.04	10.06	5.38	3.51	3.33	1.168
CONGENITAL ANOMALIES	DEPS.	75	76	34	44	13	3	0	4	257	0.95	0.838
	RATE:	26.93	2.02	0.99	0.67	0.28	0.18	0.00	1.28	1.18	1.22	1.077
PERINATAL CONDITIONS	DEPS.	380	0	0	0	0	0	0	0	380	0.38	0.453
	RATE:	136.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	1.61	0.582
ILL DEFINED SYMPTOMS, CONDITIONS	DEPS.	69	150	232	372	399	266	184	71	1665	0.82	0.770
	RATE:	24.78	3.99	6.72	5.69	8.56	12.38	18.50	21.23	7.76	7.56	0.872
-GENERAL SYMPTOMS	DEPS.	26	78	12	41	42	49	64	27	339	0.74	0.665
	RATE:	9.34	2.07	0.38	0.63	0.90	2.91	6.44	8.07	1.56	1.52	0.823
-RESPIRATORY SYMPTOMS	DEPS.	9	7	8	62	198	79	37	5	405	0.98	0.888
	RATE:	3.23	0.19	0.23	0.98	4.25	4.69	3.72	1.49	1.87	1.77	1.082
TRAUMA	DEPS.	16	146	111	164	174	147	221	102	1161	0.75	0.704
	RATE:	5.75	3.88	3.22	2.51	3.73	8.73	22.22	84.41	5.35	5.11	0.790
OTHER INJ., POISONING	DEPS.	4	38	63	138	132	67	51	15	508	0.83	0.759
	RATE:	1.44	1.01	1.83	2.11	2.83	3.98	5.13	4.48	2.34	2.29	0.987
SUPPLEMENTARY V CODES	DEPS.	2618	42	136	894	255	125	67	34	3843	1.11	1.042
	RATE:	937.16	1.12	3.94	8.47	5.47	7.42	6.75	10.16	17.70	16.16	1.181
OTHER/UNKNOWN	DEPS.	2	0	1	1	0	0	0	0	4	0.09	0.024
	RATE:	0.72	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.02	0.02	0.230
TOTAL	DEPS.	3410	1787	4704	10700	3837	2104	1352	1347	34504	0.00	0.000
	RATE:	1220.62	47.49	138.70	163.86	110.79	210.02	327.00	402.69	180.98	157.10	0.936

Exhibit 3.13

MORBIDITY BY AGE GROUP AND DIAGNOSTIC CATEGORY
HAMILTON-WENTWORTH
1986

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. ..... S.RATE	95% LOWER UPPER
MORBIDITY CAUSE												
ALL INFECTIOUS DISEASES	SEPS.	190	382	182	139	87	47	63	25	1043	1.00	0.939
	RATE:	34.93	4.97	1.47	1.00	0.98	1.52	3.97	5.48	2.46	2.50	1.064
ALL NEOPLASMS	SEPS.	7	73	126	535	1360	1850	669	171	4807	0.00	0.000
	RATE:	1.23	0.95	1.02	4.14	15.01	34.25	42.16	37.46	9.46	0.00	0.936
-LUNG CANCER	SEPS.	0	0	0	12	179	155	74	11	431	0.00	0.765
	RATE:	0.00	0.00	0.00	0.09	1.96	5.02	4.67	2.41	1.02	0.94	0.922
-COLORECTAL CANCER	SEPS.	0	0	0	7	117	101	76	29	330	0.00	0.737
	RATE:	0.00	0.00	0.00	0.05	1.28	3.27	4.79	6.35	0.78	0.71	0.912
-BREAST CANCER	SEPS.	0	0	0	49	171	82	46	14	362	0.95	0.884
	RATE:	0.00	0.00	0.00	0.38	1.88	2.65	2.90	3.07	0.85	0.00	1.004
ALL ENDOCRINE, METAL. NUT., + IMM.	SEPS.	7	55	57	195	226	170	150	66	926	0.73	0.683
	RATE:	1.23	0.72	0.92	1.51	2.48	5.50	9.46	14.44	2.19	2.09	0.780
-DIABETES MELLITUS	SEPS.	0	32	39	92	133	98	71	15	480	0.62	0.567
	RATE:	0.00	0.42	0.56	0.71	1.46	3.17	4.48	3.29	1.13	1.08	0.670
ALL BLOOD DISEASES + BV.	SEPS.	6	57	83	256	886	384	230	92	1664	0.96	0.901
	RATE:	1.06	0.74	1.20	1.98	6.10	12.43	14.50	20.15	3.93	3.72	1.021
ALL MENTAL DISORDERS	SEPS.	2	23	252	499	436	210	106	71	1879	0.60	0.639
	RATE:	0.35	0.30	3.64	5.41	4.78	6.80	11.73	15.55	4.44	4.34	0.784
-NEUROSES	SEPS.	1	7	32	96	94	41	29	3	303	0.58	0.817
	RATE:	0.18	0.09	0.46	0.74	1.03	1.33	1.83	0.66	0.72	0.79	0.650
-PERSONALITY DISORDERS	SEPS.	1	13	125	196	88	47	35	9	514	0.67	0.613
	RATE:	0.18	0.17	1.80	1.52	0.97	1.52	2.21	1.97	1.21	1.28	0.732
ALL H.S. & SENSE ORGANS	SEPS.	46	217	100	337	633	660	579	151	2734	0.91	0.854
	RATE:	8.47	2.82	1.44	2.61	6.98	21.62	36.51	33.06	6.46	6.89	0.966
-CATARACTS	SEPS.	0	2	1	20	251	486	404	113	1217	1.09	1.024
	RATE:	0.00	0.03	0.01	0.15	2.75	15.79	25.47	24.75	2.87	2.61	1.160
ACUTE MYOCARDIAL INFARCTION	SEPS.	0	0	0	60	371	302	230	57	1020	1.03	0.967
	RATE:	0.00	0.00	0.00	0.46	4.07	9.76	14.50	12.49	2.41	2.22	1.096
OTHER ISCHAEMIC HEART	SEPS.	0	1	0	104	858	546	397	111	2017	0.97	0.911
	RATE:	0.00	0.01	0.00	0.81	9.41	17.67	25.03	24.32	4.76	4.39	1.032
ALL OTHER HEART DISEASES	SEPS.	4	6	18	118	446	426	498	217	1732	0.77	0.723
	RATE:	0.71	0.08	0.26	0.91	4.89	13.72	31.40	47.54	4.09	3.75	0.819
CEREBROVASCULAR DISEASES	SEPS.	1	2	4	49	252	296	341	147	1093	0.66	0.600
	RATE:	0.18	0.03	0.06	0.38	2.76	9.56	21.50	32.20	2.58	2.35	0.915
ALL RESPIRATORY DISEASES	SEPS.	281	1477	417	484	499	502	437	182	4219	0.78	0.657
	RATE:	49.57	19.21	6.02	3.88	5.48	16.25	27.56	39.87	9.96	9.69	0.746
-ACUTE RESPIRATORY INFECTION	SEPS.	46	134	20	23	13	4	5	6	251	0.42	0.370
	RATE:	8.11	1.74	0.29	0.18	0.14	0.13	0.32	1.31	0.59	0.61	0.476
-CHRONIC TONSILS & ADENOIDS	SEPS.	2	855	200	84	6	1	0	0	1148	0.98	0.920
	RATE:	0.35	11.12	2.69	0.65	0.07	0.03	0.00	0.00	2.71	2.63	1.043
-PNEUMONIA	SEPS.	44	162	23	67	133	130	141	169	817	0.75	0.699
	RATE:	7.76	2.11	0.33	0.52	1.46	4.47	8.09	23.88	1.93	1.85	0.804
-ASTHMA	SEPS.	49	217	48	56	63	47	16	2	498	0.48	0.439
	RATE:	8.64	2.82	0.69	0.43	0.69	1.62	1.01	0.64	1.18	1.19	0.525

Source: as per Exhibit 3.11
Notes: as per Exhibit 3.11

Exhibit 3.13 continued...

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.N.S. ..... S.RATE	95% LOWER UPPER
MORBIDITY CAUSE												
ALL GASTROINTESTINAL DISEASES	DEPS.	60	207	474	1377	1791	902	615	183	5629	0.84	0.789
	RATE:	10.58	2.69	6.04	10.67	19.68	29.84	38.78	40.09	13.29	12.61	0.894
-APPENDICITIS	DEPS.	0	75	130	121	56	11	7	1	403	0.86	0.779
	RATE:	0.00	0.98	1.66	0.94	0.64	0.36	0.44	0.22	0.95	0.96	0.969
-HERNIA	DEPS.	12	29	76	250	466	177	89	9	1110	0.96	0.901
	RATE:	2.12	0.38	1.10	2.00	5.13	5.73	5.61	1.97	2.64	2.54	1.082
-CHOLELITHIASIS	DEPS.	0	1	51	357	385	192	119	14	1119	1.07	1.006
	RATE:	0.00	0.01	0.74	2.77	4.22	6.21	7.50	3.07	2.64	2.58	1.130
-ENTERITIS/COLITIS	DEPS.	10	32	45	86	59	44	33	9	318	0.45	0.401
	RATE:	1.76	0.42	0.65	0.67	0.65	1.42	2.08	1.97	0.75	0.74	0.504
ALL GENITOURINARY DISEASES	DEPS.	25	126	486	1448	1187	660	421	87	4438	0.90	0.846
	RATE:	4.41	1.64	7.02	11.19	13.02	21.36	26.54	19.06	10.48	10.21	0.984
-PROSTATE HYPERPLASIA	DEPS.	0	0	0	4	216	270	160	17	675	1.04	0.968
	RATE:	0.00	0.00	0.00	0.03	2.37	8.74	10.09	3.72	1.59	1.48	1.121
ALL COMPLIC. PREGNANCIES	DEPS.	0	7	2761	5842	3	0	0	0	8313	0.99	0.930
	RATE:	0.00	0.09	39.85	42.93	0.03	0.00	0.00	0.00	19.63	20.29	1.083
-NORMAL DELIVERIES	DEPS.	0	0	292	638	1	0	0	0	931	0.63	0.998
	RATE:	0.00	0.00	4.21	4.96	0.01	0.00	0.00	0.00	2.20	2.27	0.673
-COMPLIC. RELATED TO PREGNANCY	DEPS.	0	2	759	1022	0	0	0	0	1783	1.19	1.117
	RATE:	0.00	0.03	10.96	7.92	0.00	0.00	0.00	0.00	4.21	4.34	1.066
-PROBL. WITH DELIVERY	DEPS.	0	1	1306	3226	1	0	0	0	4534	1.09	1.004
	RATE:	0.00	0.01	18.86	24.99	0.01	0.00	0.00	0.00	10.71	11.06	1.160
ALL DISEASES SKIN/MUSCULOSKELETAL	DEPS.	13	184	489	1857	1246	593	317	64	3934	0.98	0.928
	RATE:	2.29	2.39	6.63	8.19	13.67	19.19	19.99	14.02	9.29	9.02	1.043
-ARTHRITIS	DEPS.	1	29	158	369	468	298	164	22	1446	1.15	1.060
	RATE:	0.18	0.38	2.28	2.39	5.13	9.65	10.34	4.82	3.42	3.27	1.284
CONGENITAL ANOMALIES	DEPS.	183	173	54	68	31	4	10	4	527	0.85	0.778
	RATE:	32.28	2.25	0.78	0.83	0.34	0.13	0.63	0.88	1.24	1.28	0.989
PERINATAL CONDITIONS	DEPS.	888	0	0	0	0	0	0	0	888	0.82	0.687
	RATE:	156.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08	2.15	0.888
ILL DEFINED SYMPTOMS, CONDITIONS	DEPS.	151	304	316	675	862	404	336	110	3152	0.81	0.761
	RATE:	26.64	3.95	4.47	8.23	9.46	13.06	21.19	24.10	7.44	7.24	0.862
-GENERAL SYMPTOMS	DEPS.	66	173	25	62	141	95	112	39	733	0.79	0.733
	RATE:	11.64	2.25	0.36	0.64	1.56	3.07	7.06	8.54	1.73	1.69	0.882
-RESPIRATORY SYMPTOMS	DEPS.	22	12	11	177	378	132	66	5	803	0.89	0.829
	RATE:	3.88	0.16	0.16	1.37	4.15	4.27	4.16	1.10	1.90	1.82	0.984
TRAUMA	DEPS.	28	432	527	689	448	244	283	219	2870	0.88	0.751
	RATE:	4.94	5.62	7.61	5.34	4.92	7.90	17.84	47.97	6.78	6.67	0.851
OTHER INJ., POISONING	DEPS.	11	87	112	253	288	187	97	24	1046	0.98	0.845
	RATE:	1.94	1.13	1.62	1.96	3.38	5.88	6.12	5.26	2.47	2.48	0.958
SUPPLEMENTARY V CODES	DEPS.	5258	85	182	643	486	278	161	52	7869	1.10	1.033
	RATE:	906.09	1.11	2.63	5.14	4.48	8.74	10.15	11.39	16.70	17.08	1.179
OTHER/UNKNOWN	DEPS.	2	0	2	2	0	3	0	0	9	0.12	0.056
	RATE:	0.35	0.00	0.03	0.02	0.00	0.10	0.00	0.00	0.02	0.02	0.228
TOTAL	DEPS.	7157	3098	6506	14667	10811	7044	4688	2033	66091	0.88	0.824
	RATE:	1862.48	80.69	90.80	113.70	121.79	224.84	279.87	448.38	142.16	139.36	0.936

Exhibit 3.14

ACUTE CARE SEPARATIONS, HAMILTON-WENTWORTH
BY AGE GROUP AND GENDER (ALL DIAGNOSTIC CHAPTERS)
1986 - 1987

	HAMILTON-WENTWORTH *					HAMILTON						DUNDAS					
	AGE					AGE						AGE					
	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL	(f) .	NEWBORN	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL	.	NEWBORN	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL
	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES
SEX																			
MALE	3	3	7	3	16	3	2266	2110	4436	5055	5882	19760	1	147	87	237	275	410	1157
FEMALE	1	4	3	1	9	.	2163	1720	11796	4260	6521	26460	1	165	67	650	248	522	1653
TOTAL	4	7	10	4	25	3	4429	3830	16232	9315	12403	46220	2	312	154	887	523	932	8810

	STONEY CREEK						ANCASTER						FLAMBOROUGH						
	AGE						AGE						AGE						
	.	NEWBORN	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL	NEWBORN	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL	NEWBORN	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL
	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES
SEX																			
MALE	.	343	295	827	544	640	2369	132	79	164	202	223	800	142	116	219	213	210	900
FEMALE	1	324	236	1566	532	587	3246	115	70	496	157	182	1020	136	101	652	199	187	1269
TOTAL	1	667	531	2393	1096	1227	5615	247	149	660	359	405	1820	278	219	871	412	397	2171

	GLANBROOK						OTHER						TOTAL						
	AGE						AGE						AGE						
	NEWBORN	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL	NEWBORN	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL	.	NEWBORN	00 TO 14 YEARS	15 TO 44 YEARS	45 TO 64 YEARS	65 TO 99 YEARS	TOTAL
	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES
SEX																			
MALE	67	52	108	128	102	457	6	2	14	6	12	40	4	3103	2754	5703	6450	7402	25501
FEMALE	61	34	283	111	105	594	6	3	27	8	7	51	2	2964	2232	15474	5518	6112	34302
TOTAL	128	86	391	239	207	1051	12	5	41	14	19	91	6	6067	4986	21182	11968	13594	59803

* specific municipality not known

† age unknown or over 100

Note: where age groups and geographic boundaries coincide, rates can be calculated using information contained in the Demographics section for the purposes of comparison

Source: Ontario Ministry of Health, Information Resources and Services Branch

Exhibit 3.15

ONTARIO HOME CARE PROGRAM
NUMBER OF ADMISSIONS
1985 - 1986

Home Care Program Central West Region	Type*	Primary Diagnostic Category (see below) (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
Brant County	A	6	13	166	63	12	96	3	19	62	12	262	133	57	106	294	139	73	40	156	242	175	44	60	74
	C	0	0	24	9	4	21	3	46	53	3	0	46	37	46	36	9	13	0	12	74	8	6	2	22
Haldimand-Norfolk	A	6	14	86	40	6	82	8	14	49	14	161	93	38	49	49	56	35	8	61	182	137	31	36	235
	C	4	5	104	39	6	23	13	48	136	9	1	118	57	67	82	17	21	6	35	196	75	36	11	58
Halton	A	12	21	371	132	16	114	26	50	159	20	176	179	127	183	148	237	73	21	168	356	333	119	98	194
	C	3	6	74	24	7	27	7	51	189	5	7	118	66	100	56	26	24	0	11	141	34	28	4	34
Hamilton-Wentworth	A	19	47	793	233	28	339	37	154	413	15	64	401	166	289	252	330	202	25	520	772	907	180	603	286
	C	1	11	266	72	14	73	29	165	411	12	4	238	145	192	134	53	74	0	105	351	104	27	34	85
Niagara Region	A	12	46	497	175	27	267	33	78	294	25	210	322	174	397	237	255	135	5	251	717	506	262	128	213
	C	2	3	196	39	12	42	9	88	125	11	0	165	80	76	85	41	24	0	62	87	23	7	7	53
Waterloo Region	A	9	16	166	57	16	156	11	44	132	7	170	163	61	155	63	211	86	5	182	295	254	114	51	123
	C	0	2	215	72	5	52	6	36	131	2	0	101	41	71	75	26	22	0	33	101	24	20	1	40
Wellington, Dufferin, Guelph	A	2	30	331	106	38	135	32	137	145	23	54	326	174	191	257	207	99	18	208	383	360	152	92	225
	C	0	11	91	17	3	33	21	75	153	11	0	143	114	97	94	23	22	0	32	181	26	10	2	43
ONTARIO TOTAL - HOME CARE		413	995	15714	5234	1070	7738	1049	5378	9528	876	4403	12544	6584	8841	9113	9134	4492	679	9232	17780	12606	5002	4008	9127
ONTARIO TOTAL - ACUTE		380	775	8832	3275	674	5519	620	2666	4358	640	4281	7408	4066	5328	5680	7835	3505	661	7558	12151	11167	4172	3729	5990
ONTARIO TOTAL - CHRONIC		33	220	6882	1959	396	2219	429	2712	5170	227	122	5136	2518	3513	3433	1299	987	18	1674	5629	1439	830	279	3137

DIAGNOSTIC CATEGORIES:

(1) After Care
(2) Infectious and Parasitic Diseases incl. Tuberculosis
(3) Neoplasm (malignant/Benign) excluding (4)
(4) Malignant Neoplasm of Digest. Organ & Peritoneum
(5) Endocrine Nutritional & Metabolic Disease excl.(6)
(6) Diabetes Mellitus
(7) Diseases of Blood and Blood Forming Organs
(8) Mental Disorders
(9) Diseases of the Nervous System including Multiple Sclerosis & Parkinson's Disease
(10) Disorders of Sense Organs excluding (11)
(11) Cataract
(12) Disease of the Circulatory System excl. (13) & (14)
(13) Ischaemic Heart Disease
(14) Cerebrovascular Disease
(15) Diseases of the Respiratory System
(16) Diseases of Digestive System
(17) Diseases of Genitourinary System
(18) Complication of Pregnancy, Child Birth & Puerperium
(19) Diseases of the Skin and
(20) Diseases of Musculskeletal System & Conn. Tissue (incl. arthritis)
(21) Fractures, Injury and Poisoning excluding (22)
(22) Fractured Femur
(23) Surgical/Medical Complications (Wound Disruption)
(24) Other Diagnostic Categories

* A = acute
C = chronic

Compiled from: Ontario Home Care Administration, Ministry of Health, Ontario Home Care Program 1985-86 Annual Report

Exhibit 3.16

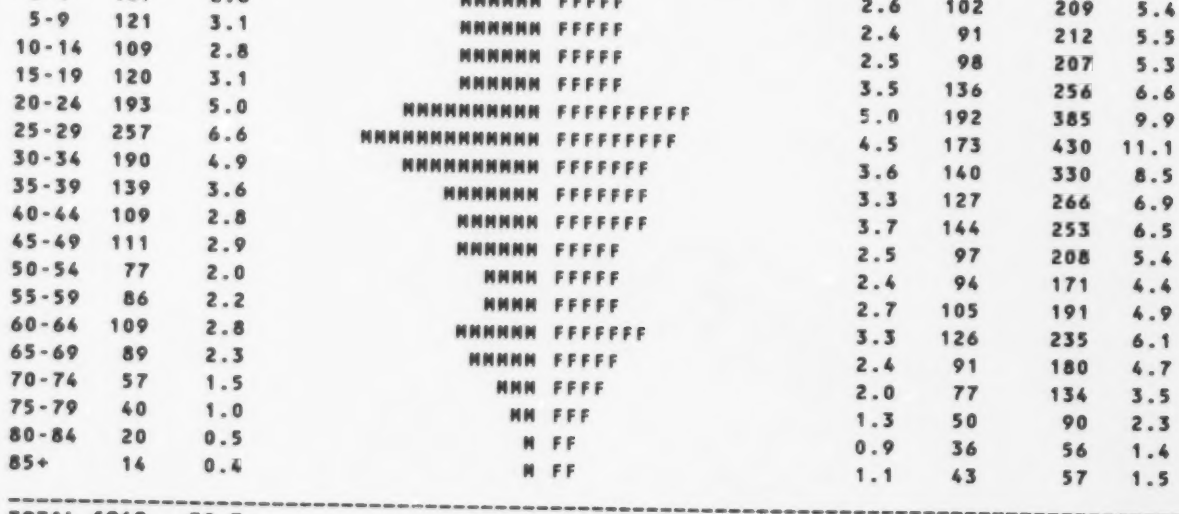
HOME CARE PROGRAM
- HAMILTON-WENTWORTH -
ADMISSIONS BY PRIMARY DIAGNOSTIC CATEGORY
April 1987 - March 1988

Diagnostic Category	Acute Program #	Acute Program %	Chronic Program #	Chronic Program %	Total Home Care #	Total Home Care %
Trauma	1036	19.05	315	7.17	1351	13.74
Musculo-skeletal	480	8.83	663	15.09	1143	11.63
Infections	35	0.64	22	0.50	57	0.58
Cancers	595	10.94	639	14.54	1234	12.55
Endocrine/Metabolic Disorders	274	5.04	196	4.46	470	4.78
Blood Diseases	15	0.28	24	0.55	39	0.40
Behavioural/Psych. Disorders	74	1.36	230	5.23	304	3.09
Nervous System	174	3.20	479	10.90	653	6.64
Eye and Ear	61	1.12	25	0.57	86	0.88
Circulatory Diseases (heart & blood vessel)	486	8.94	909	20.69	1395	14.19
Respiratory	180	3.31	253	5.76	433	4.40
Oral/Gastrointestinal	290	5.33	76	1.73	366	3.72
Renal	62	1.14	143	3.25	205	2.09
Reproductive	180	3.31	12	0.27	192	1.95
Skin	631	11.60	154	3.51	785	7.98
Other	865	15.91	254	5.78	1119	11.38
TOTAL	5438	100.00	4394	100.00	9832	100.00

Compiled from: Ontario Ministry of Health, Ontario Home Care Administration System, run on Analysis of Admissions by Diagnosis and Condition.

HENDERSON HEALTH SERVICE ORGANIZATION
AGE-SEX DISTRIBUTION TOTAL ENROLMENT
JULY 1987

AGE GROUP	MALE #	MALE %	FEMALE #	FEMALE %	TOTAL #	TOTAL %
0-4	107	2.8	102	2.6	209	5.4
5-9	121	3.1	91	2.4	212	5.5
10-14	109	2.8	98	2.5	207	5.3
15-19	120	3.1	136	3.5	256	6.6
20-24	193	5.0	192	5.0	385	9.9
25-29	257	6.6	173	4.5	430	11.1
30-34	190	4.9	140	3.6	330	8.5
35-39	139	3.6	127	3.3	266	6.9
40-44	109	2.8	144	3.7	253	6.5
45-49	111	2.9	97	2.5	208	5.4
50-54	77	2.0	94	2.4	171	4.4
55-59	86	2.2	105	2.7	191	4.9
60-64	109	2.8	126	3.3	235	6.1
65-69	89	2.3	91	2.4	180	4.7
70-74	57	1.5	77	2.0	134	3.5
75-79	40	1.0	50	1.3	90	2.3
80-84	20	0.5	36	0.9	56	1.4
85+	14	0.4	43	1.1	57	1.5
TOTAL	1948	50.3	1922	49.7	3870	100.0



Source: Henderson General Hospital, Department of Family Medicine, McMaster University Teaching Health Unit (with the help of Drs. Stephenson and MacDonald; Carol Profetto and Kim Clark).

Exhibit 3.18

HENDERSON HEALTH SERVICE ORGANIZATION
20 MOST COMMON DIAGNOSES BY NUMBER OF PATIENTS
1987

Rank	# Patients	Diagnosis
1	599	Advice & health instruction
2	548	Acute URI (including pharyngitis)
3	503	Medical examination
4	372	Hypertension (uncomplicated)
5	369	Anxiety
6	344	Immunization
7	256	Sprain & strain all other sites nec
8	227	Abdominal pain
9	211	Back pain without radiation
10	202	Pain in joint
11	180	Osteoarthrosis (osteoarthritis) & allied conditions
12	178	Pain in limb
13	168	Transient situational disturbance, acute stress reaction, adjustment reaction
14	168	Laceration, open wound, trauma, amputation
15	158	Acute otitis media
16	154	Cough
17	147	Fatigue, malaise, tiredness
18	143	Bronchitis & bronchiolitis, acute
19	138	Obesity
20	136	Eczema & allergic dermatitis

Note: a patient is counted as often as s/he has a distinct diagnosis

Exhibit 3.19

HENDERSON HEALTH SERVICE ORGANIZATION
20 MOST COMMON DIAGNOSES BY NUMBER OF ENCOUNTERS
1987

Rank	# Encounters	Diagnosis
1	1086	Hypertension (uncomplicated)
2	803	Advice & health instruction
3	790	Medical examination
4	748	Acute URI (including pharyngitis)
5	686	Anxiety
6	639	Heart failure
7	587	Diabetes
8	587	Osteoarthrosis (osteoarthritis) & allied conditions
9	539	Other cerebrovascular disease
10	505	Senile dementia
11	422	Prenatal care
12	393	Immunization
13	384	Sprain & strain all other sites nec
14	370	Back pain without radiation
15	359	Chronic ischaemic/angina
16	359	Abdominal pain
17	343	Transient situational disturbance, acute stress reaction, adjustment reaction
18	320	Obesity
19	311	Depression
20	297	Acute otitis media

Note: a patient is counted as often as s/he visits for service

Source: Henderson General Hospital, Department of Family Medicine, McMaster University Teaching Health Unit (with the help of Drs. Stephenson and MacDonald; Carol Profetto and Kim Clark).

Exhibit 3.20

NEW CANCER CASES
REGISTERED BY SITE OF DISEASE AND TREATMENT CENTRE, 1986

SITE OF DISEASE (ICD9)	HAMILTON #	HAMILTON %	ONTARIO #	ONTARIO %
*140 Lip	6	0.2	79	0.4
*141 Tongue	22	0.7	180	0.9
142-145 Rest of Mouth	44	1.3	322	1.6
146-149 Pharynx and Tonsil	35	1.1	305	1.5
*150 Esophagus	42	1.3	233	1.1
152,153 Intestine except Rectum	117	3.6	795	3.9
*154 Rectum and Anal Canal	120	3.7	754	3.7
155-159 Other Digestive System	51	1.6	325	1.6
*160 Nose,Middle Ear,Acessory Sinuses	10	0.3	60	0.3
*161 Larynx	48	1.5	448	2.2
*162 Lung, Bronchus, Trachea	481	14.7	3237	16.0
163-165 Other Respiratory	9	0.3	60	0.3
*170 Bone	7	0.2	66	0.3
*172 Malignant Melanoma	104	3.2	583	2.9
*173 Other Cancer of Skin	306	9.4	1977	9.7
174,175 Breast	540	16.5	3567	17.6
*180 Cervix Uteri	68	2.1	467	2.3
179,181,182 Other Uterus	129	4.0	621	3.1
*183 Ovary Tubes and Ligament	82	2.5	436	2.1
*184 Other Female Genital Organs	20	0.6	113	0.6
*185 Prostate	151	4.6	971	4.8
*186 Testis	23	0.7	209	1.0
*187 Other Male Genital Organs	1	0.0	18	0.1
*188 Bladder	97	3.0	421	2.1
*189 Kidney and Other Urinary	40	1.2	268	1.3
191,192 Brain and Nervous System	79	2.4	477	2.4
*193 Thyroid Gland	10	0.3	91	0.4
*200 Lymphosarcoma, Reticular Cell Sarcoma	43	1.3	452	2.2
*201 Hodgkin's Disease	40	1.2	277	1.4
*202 Other Lymphomas	97	3.0	390	1.9
204-208 Leukemia	87	2.7	475	2.3
RESIDUAL Other Sites	320	9.8	1360	6.7
TOTAL	3262	100.0	20295	100.0

* Provisional; transitional period

Source: Ontario Cancer Treatment and Research Foundation. 1988. Cancer in Ontario 1987: biological response modifiers. (Table IX, p.195)

Preventive Primary Health Care

- sexually transmitted diseases
- live births
-abortions, stillbirths & infant deaths

Chapter 4

Exhibit 4.1

SEXUALLY TRANSMITTED DISEASES POSITIVE TEST RESULTS FOR 1987, HAMILTON-WENTWORTH*

ANNUAL REPORT JANUARY - DECEMBER
M=Male F=Female

	PPNG			GON.			SYPH.			CHLAM.			HERPES			AIDS			POSITIVE HIV SEROLOGY TEST		
AGE	M	F	TOT.	M	F	TOT.	M	F	TOT.	M	F	TOT.	M	F	TOT.	M	F	TOT.	M	F	TOT.
0-19	0	0	0	57	132	189	1	0	1	16	210	226	3	7	10	0	0	0	3	0	3
20-24	0	0	0	105	129	234	1	4	5	53	251	304	11	13	24	1	0	1	7	1	8
25-39	0	0	0	72	55	127	11	5	16	23	101	124	10	22	32	3	0	3	21	0	21
40 +	0	0	0	18	8	26	14	3	17	6	5	11	3	6	9	1	0	1	3	0	3
U/K	0	0	0	19	41	60	0	0	0	3	42	45	1	6	7	0	0	0	3	0	3
TOTAL	0	0	0	271	365	636	27	12	39	101	609	710	28	54	82	5	0	5	37	1	38

* As reported from all sources (area hospitals, labs, physicians, STD and birth control clinics)

Source: Regional Municipality of Hamilton-Wentworth, Department of Health Services

Contact: Arlene Stacie

Exhibit 4.2

LIVE BIRTHS, WENTWORTH COUNTY
TENTATIVE MINISTRY DATA
1986

	Marital Status		Birth Weight (grams)			Gestation Period (weeks)			
mother's age	not married NO.	other NO.	under 1500 NO.	1500-2500 NO.	2501+ NO.	20-27 NO.	28-34 NO.	35+ NO.	TOTAL NO.
13	1	0	0	0	1	0	0	1	1
14	2	0	0	0	2	0	0	2	2
15	8	0	0	0	8	0	0	8	8
16	31	4	0	1	34	0	1	34	35
17	48	6	1	6	47	0	1	53	54
18	69	26	0	7	88	0	0	95	95
19	57	57	1	10	103	0	4	110	114
20-24	296	1149	13	80	1352	6	38	1409	1445
25-29	128	2286	17	110	2287	8	34	2372	2414
30-34	57	1438	6	65	1424	3	13	1479	1495
35-39	12	377	8	26	355	3	10	376	389
40-44	2	31	3	0	30	1	1	31	33
45 +	0	1	0	0	1	0	0	1	1
1986 TOTAL	711	5375	49	305	5732	21	94	5971	6086
1985 TOTAL	690	5399	63	286	5739	30	133	5926	6089
1984 TOTAL	630	5299	52	322	5555	24	138	5767	5929

Source: Ontario Ministry of Health, Public Health Branch

Exhibit 4.3

INFANT MORTALITY FROM SELECTED CAUSES, ONTARIO, 1984

ONTARIO AND LOCAL HEALTH AGENCIES BY REGION	LIVE BIRTHS	TOTAL INFANT DEATHS	CONGENITAL ANOMALIES (740-759)		RESPIRAT. CONDITIONS (760-770)		SUDDEN INFANT DEATHS (7980)		GROWTH DISORDERS (764-766)		ACCIDENTS (E800-869, E877-929)		INFECTIOUS & PARASIT. DISEASES (001-139, 771)		PNEUMONIA & INFLUENZA (480-487)		BIRTH TRAUMA (767)		OTHER CAUSES	
			NO.	RATE (1)	NO.	RATE	NO.	RATE	NO.	RATE	NO.	RATE	NO.	RATE	NO.	RATE	NO.	RATE	NO.	RATE
ONTARIO TOTAL	131,049	1,086	299	2.3	207	1.6	175	1.4	88	0.7	22	0.2	25	0.2	9	0.1	13	0.1	281	1.5
SOUTHWEST	19,283	150	42	2.2	30	1.6	22	1.1	14	0.7	4	0.2	4	0.2	2	0.1	1	0.1	31	1.6
BRUCE	1,076	8	4	3.7	2	1.9	1	0.9											1	0.9
ELGIN-ST.THOMAS	990	6			1	1.0	2	2.0											3	3.0
GREY-OWEN SOUND	1,024	4			1	1.0	1	1.0	1	1.0	1	1.0							2	2.4
HURON	831	8			3	3.6	2	2.4					1	1.2					2	1.3
KENT	1,584	13	4	2.5	2	1.3	3	1.9							2	1.3			3	1.5
LAMBTON	2,884	18	7	3.5	4	2.0	2	1.0	2	1.0									13	2.7
MIDDLESEX-LONDON	4,912	47	12	2.5	11	2.2	5	1.0	3	0.6	1	0.2	1	0.2			1	0.2	2	1.6
OXFORD	1,273	13	3	2.4	3	2.4	2	1.6	2	1.6	1	0.8							1	1.0
PERTH	998	4			1	1.0			1	1.0			1	1.0					4	0.9
WINDSOR-ESSEX	4,511	29	12	2.7	2	0.4	4	0.9	5	1.1	1	0.2	1	0.2						
CENTRAL WEST	24,912	171	50	2.0	38	1.5	24	1.0	17	0.7	4	0.2	1	0.0	2	0.1	2	0.1	33	1.3
BRANT	1,629	13	4	2.5	1	0.6	2	1.2											5	3.1
HALDIMAND-NORFOLK	1,379	14	4	2.9	2	1.5	4	2.9	2	1.5	1	0.7			1	0.6			1	0.7
HALTON	3,582	13	4	1.1	2	0.6			2	0.6									5	1.4
HAM.-WENTWORTH	5,929	42	13	2.2	9	1.5	5	0.8	7	1.2			1	0.2					7	1.2
NIAGARA	4,732	31	5	1.1	11	2.3	4	0.8	2	0.4	1	0.2							7	1.5
WATERLOO	5,817	48	16	3.2	7	1.4	9	1.8	1	0.2	2	0.4			1	0.2			3	0.6
WELL.-DUFF.-G.	2,644	18	4	1.5	6	2.3			3	1.1							2	0.4	5	1.9
CENTRAL EAST	56,418	418	129	2.3	81	1.4	68	1.1	40	0.7	4	0.1	10	0.2	2	0.0	5	0.1	79	1.4
DURHAM	5,175	31	12	2.3	6	1.2	5	1.0	1	0.2	1	0.2	1	0.2	1	0.2			4	0.8
HAL., K., P.R.	1,691	16	3	1.8	3	1.8	3	1.8	3	1.8									4	2.4
PEEL	9,684	54	20	2.1	10	1.0	8	0.8	4	0.4							1	0.1	9	0.9
PETERBOROUGH	1,481	7	1	0.7	3	2.1	1	0.7	2	1.4										
SIMCOE	3,259	29	8	2.5	1	0.3	8	2.5	2	0.6									7	2.1
METRO TORONTO	29,930	244	74	2.5	53	1.8	32	1.1	24	0.8	3	0.1	4	0.1	1	0.0	4	0.1	49	1.7
EAST YORK	1,402	11	3	2.1	4	2.9	1	0.7	1	0.7									2	1.4
ETOBICOKE	3,943	25	5	1.3	4	1.0	5	1.3	1	0.3			1	0.3					8	2.0
NORTH YORK	7,347	62	21	2.9	9	1.2	7	1.0	8	1.1			1	0.1			1	0.3	8	1.0
SCARBOROUGH	6,971	51	14	2.0	13	1.9	6	0.9	7	1.0			2	0.3	1	0.1	3	0.4	13	1.8
TORONTO	8,268	88	27	3.3	18	2.2	10	1.2	7	0.8	3	0.4							6	1.1
YORK BOROUGH	1,999	15	4	2.0	5	2.5	3	1.5											15	1.8
YORK REGIONAL	5,270	29	11	2.1	5	0.9	3	0.6	2	0.4			2	0.4					3	1.5
																			6	1.1

Source: Ontario Ministry of Health, Community Health Programs Branch, Statistical Report on Community Health, Ontario, 1984. (Table 10.1)

Contact: Gia Eisenstein (Executive Director, Community Health Programs Branch)

Exhibit 4.4

STILLBIRTHS

HAMILTON-WENTWORTH, 1987

	MARITAL STATUS		WEIGHT	GESTATION PERIOD			
	NOT MARRIED	OTHERS	WEIGHT UNK.	20-27	28-34	35 +	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.
AGE							
18	1	0	1	0	1	0	1
19	0	2	2	0	0	2	2
20-24	1	8	9	3	3	3	9
25-29	1	7	6	4	2	2	8
30-34	0	10	10	3	4	3	10
35-39	0	2	2	1	0	1	2
40-44	0	1	1	0	1	0	1
TOTAL	3	30	33	11	11	11	33

Exhibit 4.5

INFANT DEATHS, BY AGE AND SEX

HAMILTON-WENTWORTH, 1986

	SEX		TOTAL
	MALE	FEMALE	
	NO.	NO.	NO.
AGE			
<7 DAYS	12.00	8.00	20
7-27 DAYS	1.00	3.00	4
28 DAYS-1 YEAR	7.00	13.00	20
TOTAL	20.00	24.00	44

Exhibit 4.6

THERAPEUTIC ABORTIONS: AGE BY MARITAL STATUS

HAMILTON-WENTWORTH, 1987

AGE	Single	Married	Separated	Divorced	Widowed	Common Law	Row Total
14	6						6
14 YEARS							.6
15	16						16
15 YEARS							1.2
16	45					1	46
16 YEARS							3.5
17	74					1	75
17 YEARS							5.6
18	76	2	1			4	83
18 YEARS							6.2
19	98	1				4	103
19 YEARS							7.7
20	357	64	25	5		14	465
20-24 YEARS							34.9
21	146	91	36	11	1	10	295
25-29 YEARS							22.1
22	38	76	24	15	3	2	158
30-34 YEARS							11.9
23	8	43	2	11	1		65
35-39 YEARS							4.9
24	2	10	2		1		15
40-44 YEARS							1.1
25		3					3
45-49 YEARS							.2
COLUMN TOTAL	868	298	90	42	6	36	1332
	65.2	21.8	6.8	3.2	.5	2.7	100.0

Source: Ontario Ministry of Health, Public Health Branch
(for all tables on this page)

Exhibit 4.7

THERAPEUTIC ABORTIONS: GESTATION PERIOD BY AGE
HAMILTON-WENTWORTH, 1987

Gestation Period (weeks) × Age

Gestation Period (weeks)	10-14 YEARS	15-19 YEARS	20-24 YEARS	25-29 YEARS	30-34 YEARS	35-39 YEARS	40-44 YEARS	45-49 YEARS	ROW TOTAL
5				1	1	2			4
									.3
6			5	6	5		1		21
		4							1.6
7		11	25	19	6	7			68
									5.1
8		40	59	41	26	13	5		184
									13.8
9		51	93	58	34	17	4	2	259
									19.4
10		63	86	58	29	13	1	1	251
									18.8
11	2	38	61	47	20	7	2		177
									13.3
12	1	42	46	25	16	4	1		135
									10.1
13	1	21	30	12	6	3	1		74
									5.6
14	1	22	21	10	7	1			62
									4.7
15		8	8	5	3				24
									1.8
16		2	4	6	1				13
									1.0
17	2	9	13	2					26
									2.0
18		8	6	3	2				19
									1.4
19	1	3	6	1	1				12
									.9
20		1	1						2
									.2
21				1					1
									.1
COLUMN TOTAL	8	323	465	295	158	65	15	3	1332
	.6	24.2	34.9	22.1	11.9	4.9	1.1	.2	100.0

Source: Ontario Ministry of Health, Public Health Branch

Contact: Jane Underwood, Director of Nursing, Hamilton-Wentworth Dep't of Health Services

Dr. R. Khazen, Chief, Family Health, Public Health Resource Service, Ministry of Health

Community Health Protection

- immunization
- dental health
- road trauma
- occupational injury

Chapter 5

HAMILTON-WENTWORTH SCHOOL IMMUNIZATION STATUS SUMMARY 1987-88

(Exhibit 5.1)

School Populations (includes JK - Gr. 13)		
	Elementary	51,814
	Secondary	26,426
	TOTAL	78,778

I) PERCENT OF TOTAL SCHOOL ENROLLMENT ASSESSED BY HEALTH DEPARTMENT

Elementary Pupils:

Birth Year	Grade	No. of Pupils on S.H.S.	No. of Pupils with Complete Immunization	Percent of Pupils on S.H.S. with Complete Immunization
83	JK	4,227	3,859	91.3
82	SK	5,400	4,999	92.6
81	1	5,504	4,808	87.4
80	2	5,361	4,326	80.7
79	3	5,257	4,622	87.9
78	4	5,197	4,671	89.9
77	5	5,104	4,597	90.1
76	6	5,266	4,703	89.3
75	7	5,162	4,480	86.8
74	8	5,230	4,412	84.4
		51,708	45,477	

- have assessed records for 99.8% of elementary pupils in region
- 87.9% of elementary pupils assessed have complete immunization
- have records of complete immunization for 87.8% of all elementary pupils in region.

Secondary Pupils:

Birth Year	Grade	No. of Pupils on S.H.S.	No. of Pupils with Complete Immunization	Percent of Pupils on S.H.S. with Complete Immunization
73	9	5,231	4,290	82.0
72	10	5,445	4,222	77.5
71	11	5,058	3,110	61.5
70	12	1,916	790	41.2
69	13	964	388	40.2
		18,614	12,800	

- have assessed records for 70.4% of secondary pupils in region
- 68.8% of secondary pupils assessed have complete immunization
- have records of complete immunization for 48.4% of all secondary pupils in region.

Elementary and Secondary Pupils:

- have assessed records for 70,322 or 89.3% of elementary and secondary pupils in region
- 58,277 or 82.9% of pupils assessed have complete immunization
- have records of complete immunization for 74% of total school population in region.

II) NUMBER OF PUPILS FULLY IMMUNIZED BY DISEASE

Elementary Pupils:

Birth Year	Grade	Diptheria Tetanus	Polio	Measles	Rubella	Mumps
83	JK	3962	3966	4005	3992	3989
82	SK	5160	5163	5135	5123	5124
81	1	4977	4980	5237	5220	5227
80	2	4426	4438	5152	5143	5142
79	3	4736	4749	5062	5051	5051
78	4	4784	4792	5011	4996	4992
77	5	4737	4745	4880	4864	4863
76	6	4858	4858	5035	5031	5024
75	7	4721	4733	4756	4738	4731
74	8	4765	4784	4724	4699	4657
		47126	47208	48997	48857	48800

Secondary Pupils:

73	9	4696	4714	4741	4713	4669
72	10	4815	4843	4820	4777	4671
71	11	4130	4187	3866	3774	3668
70	12	1414	1456	1230	1153	1088
69	13	808	841	540	503	478
		15863	16041	15197	14920	14574

Percent of Elementary Pupils Immunized by Disease:

Diptheria Tetanus] 90.95%

Polio 91.1%

Measles 94.6%

Rubella 94.3%

Mumps 94.2%

(total elementary population = 51,814)

Percent of Secondary Pupils Fully Immunized by Disease:

Diptheria Tetanus] 60%

Polio 60.7%

Measles 57.5%

Rubella 56.5%

Mumps 55.2%

(total secondary population = 26,426)

Percent of Elementary & Secondary Pupils Fully Immunized by Disease:

Diptheria Tetanus] 79.9%

Polio 80.3%

Measles 81.5%

Rubella 80.9%

Mumps 80.4%

(total school population = 78,778)

III) NUMBER OF PUPILS WITH EXEMPTIONS

Birth Year	Grade	Medical	Religious
83	JK	-	5
82	SK	3	7
81	1	2	14
80	2	3	12
79	3	2	3
78	4	4	5
77	5	3	11
76	6	1	7
75	7	2	5
74	8	3	8
73	9	5	7
72	10	7	1
71	11	2	6
70	12	2	-
69	13	-	1
		39	82

Percent of Pupils with Exemptions:

Medical	.05%
Religious/Conscience	.1%

IV) SUSPENSIONS & EXCLUSIONS

Total number of orders written 0

Source: Regional Municipality of Hamilton-Wentworth, Department of Health Services, Nursing Division (C.A.S.H. database) [for all school immunization data]

Contact: Jane Underwood, Director of Nursing, D.H.S.

Exhibit 5.2

AVERAGE DENTAL DECAY, MISSING AND FILLED TEETH PER INDIVIDUAL IN HAMILTON-WENTWORTH AND ONTARIO, AGES 5 TO 13, 1982 AND 1985

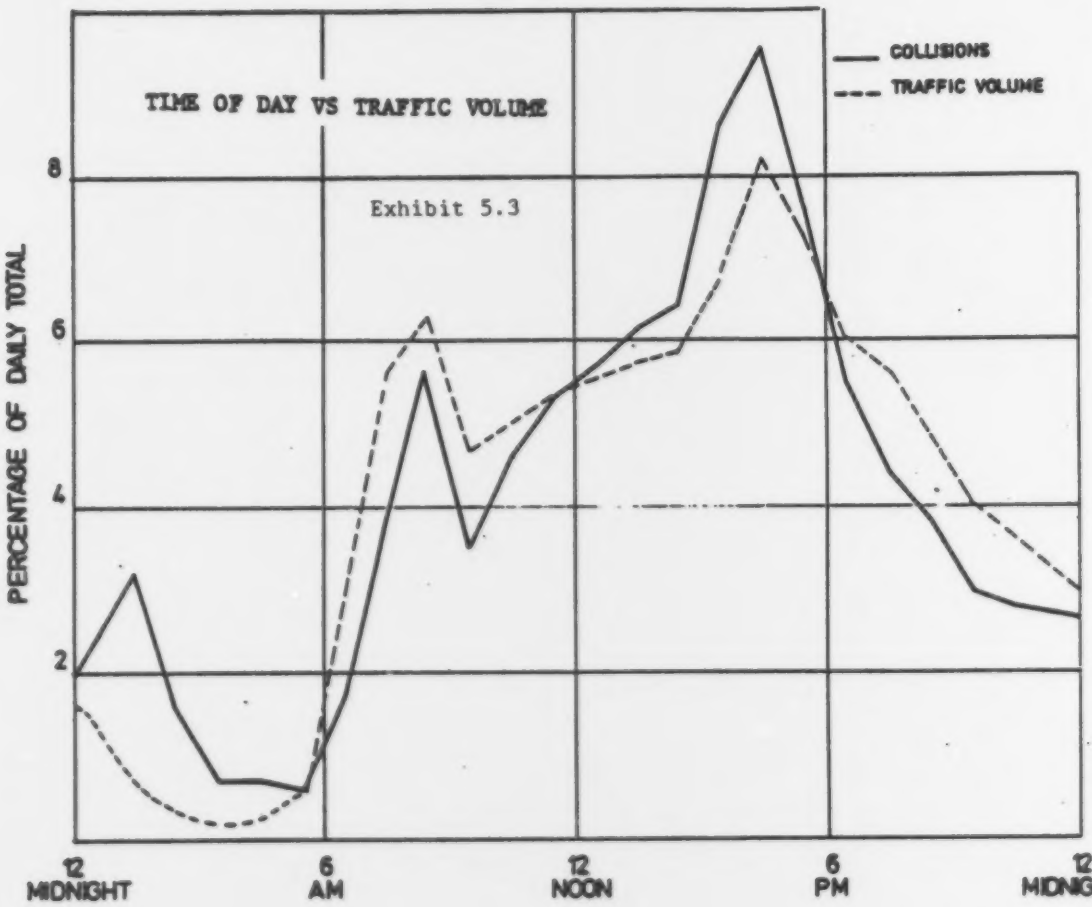
AGE (years)	Hamilton-Wentworth		Ontario	
	1982	1985	1982	1985
5	1.77	1.37	1.81	1.20
7	2.95	2.70	3.23	2.37
9	3.93	3.50	4.51	3.19
11	2.19	1.46	2.11	1.57
13	2.26	2.41	3.24	2.51

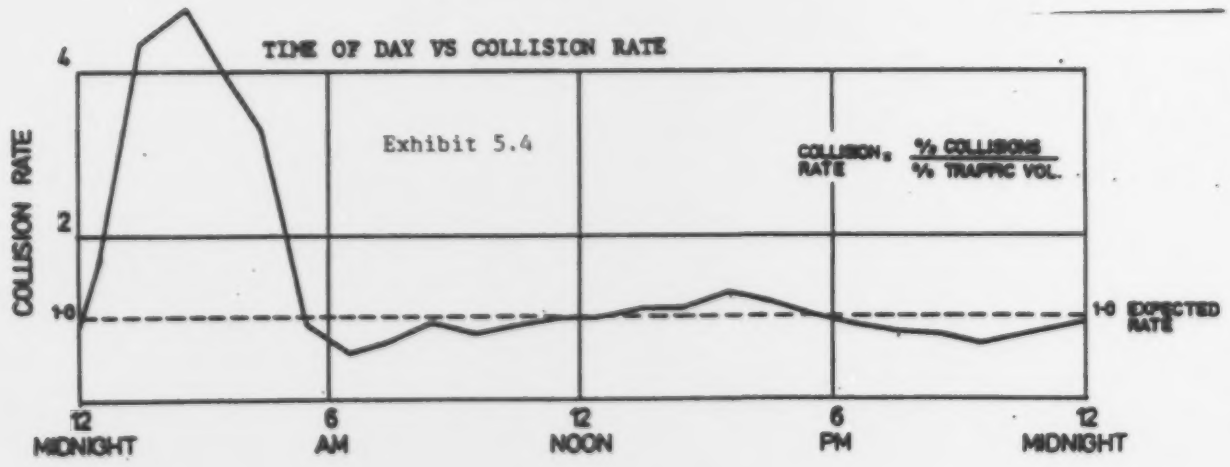
Source: Hamilton-Wentworth Regional Health Unit, 1985
Dental Health Indices 1985/86 Survey
Ministry of Health Public Health Branch

Editor's notes: Figures based on "random" sample of schools in the municipality (some socio-economic bias is to be expected).

Note that the city's new Director of Dental Services is Gary Jackson.

ROAD TRAUMA STATISTICS
- HAMILTON-WENTWORTH -
1985





Note: In the same report (cited below) it is stated that 42% of the collisions which occurred during the period from 10:00 pm to 3:00 am Wednesdays to Sundays, involved alcohol (p.45).

Source: City of Hamilton Traffic Department. 1986. 1985 Hamilton-Wentworth Collision Report.

Exhibit 5.6

ROAD TRAUMA STATISTICS
- HAMILTON-WENTWORTH -
1985

COLLISIONS BY MUNICIPALITY

Municipality	Fatal	Non-fatal Injury	Property Damage Only	All Collisions	Collision Rate per 1000 Pop.
Ancaster	1	79	116	196	11.8
Dundas	1	99	152	252	12.5
Flamborough	3	111	185	299	11.7
Glanbrook	1	41	62	104	11.0
City of Hamilton	14	2541	3315	5870	19.1
Stoney Creek	1	282	342	625	14.9
TOTAL for H-W Regional Municipality	21	3153	4172	7346	17.4

Note: - collisions reported to the Hamilton-Wentworth Regional Police only; areas patrolled by the Provincial Police (e.g. Kings Highways) are not included

- 1985 Regional Assessment Office population figures used

Exhibit 5.7

INJURY STATUS BY CATEGORY

Category	Persons Involved	Injured or Killed	Injuries/ Involved	Type of injury: Fatal	Major	Minor	Minimal
Driver	12,769	2,463	0.19	13	101	814	1,535
Bicyclist	243	239	0.98	2	17	99	121
Rider/ Passenger	7,983	1,417	0.18	8	65	458	886
Pedestrian	410	410	1.00	3	65	205	137
TOTALS	21,405	4,529	0.21	26	248	1,576	2,679

Note: Collision types:

MINIMAL: Person did not go to a hospital for medical treatment upon leaving the scene of the accident
MINOR: Person did go to hospital for medical treatment but was released without being admited
MAJOR: Person admitted to hospital for treatment of injuries received in the accident

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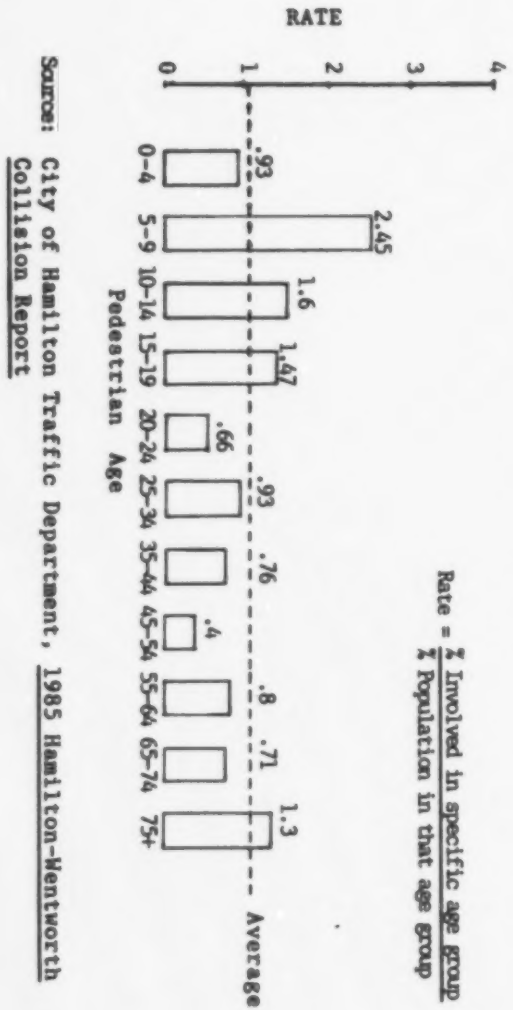
Source: City of Hamilton Traffic Department, 1985 Hamilton-Wentworth Collision Report. Tables 7-1 (p.103) and 2-1 (p.27) respectively.

Exhibit 5.5



Rate = $\frac{\text{\% Involved in specific age group}}{\text{\% Population in that age group}}$

Source: City of Hamilton Traffic Department, 1985 Hamilton-Wentworth Collision Report

Exhibit 5.8

WORKER'S COMPENSATION BOARD OF ONTARIO COMPENSATION CLAIMS INITIALLY SETTLED IN 1987: NUMBER OF FATAL & NON-FATAL CLAIMS AND WORKING DAYS LOST BY OCCUPATION FOR ALL INDUSTRIES, HAMILTON*

OCCUPATION		NUMBER OF CLAIMS			DAYS OF TEMPORARY -- TOTAL COMPENSATION --	
		FATALS	NON-FATALS	TOTAL	DAYS	AVERAGE
00	OCCUPATION NOT STATED	0	815	815	29,573	37
11	MANAGERIAL, ADMINISTRATIVE AND RELATED OCCUPATIONS	0	11	11	184	17
21	OCCUPATIONS IN NATURAL SCIENCES, ENGINEERING AND M	0	55	55	999	18
23	OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS	0	23	23	229	10
25	OCCUPATIONS IN RELIGION	0	1	1	3	3
27	TEACHING AND RELATED OCCUPATIONS	0	84	84	1,416	17
31	OCCUPATIONS IN MEDICINE AND HEALTH	0	427	427	13,514	32
33	ARTISTIC, LITERARY, RECREATIONAL AND RELATED OCCUP	0	17	17	590	35
41	CLERICAL AND RELATED OCCUPATIONS	0	411	411	9,889	24
51	SALES OCCUPATIONS	0	212	212	5,391	26
61	SERVICE OCCUPATIONS	0	956	956	33,763	36
71	FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPA	0	33	33	1,444	44
75	FORESTRY AND LOGGING OCCUPATIONS	0	2	2	202	101
77	MINING AND QUARRYING INCLUDING OIL AND GAS FIELD O	0	9	9	1,093	121
81	PROCESSING OCCUPATIONS	0	658	658	30,865	47
83	MACHINING AND RELATED OCCUPATIONS	0	838	838	25,847	31
85	PRODUCT FABRICATING, ASSEMBLING AND REPAIRING OCCU	1	1,128	1,128	41,140	37
87	CONSTRUCTION TRADES OCCUPATIONS	2	597	599	25,276	42
91	TRANSPORT EQUIPMENT OPERATING OCCUPATIONS	0	561	561	22,673	41
93	MATERIALS HANDLING AND RELATED OCCUPATIONS, N.E.C.	0	553	553	21,997	40
95	OTHER CRAFTS AND EQUIPMENT OPERATING OCCUPATIONS	0	97	97	2,352	25
99	OCCUPATIONS, NOT ELSEWHERE CLASSIFIED	0	647	647	25,008	39
TOTAL		3	8,135	8,138	293,446	36

* Refer to explanatory note on the following page

Source: Worker's Compensation Board of Ontario (Toronto), Report S57102K2

AN EXPLANATORY NOTE ON INITIALLY SETTLED COMPENSATION CLAIMS

The report(s) enclosed are tabulated on the basis of "*Compensation Claims Initially Settled in the year 19XX*". This tabulation basis selects claims satisfying two criteria:

1. Claim status is "compensation"
2. Claim was "initially settled" in 19XX

1. COMPENSATION CLAIMS

These are claims involving "disabling" injuries/illnesses resulting in death, permanent disability or temporary disability. If the claim is allowed, the Board compensates the worker or his/her survivors according to the Ontario Workers' Compensation Act.

Less severe injuries which do not involve compensation for lost wages or other disability benefits are NOT included in the tabulations. These are mainly claims requiring health care only and there is no lost time beyond the day of the accident.

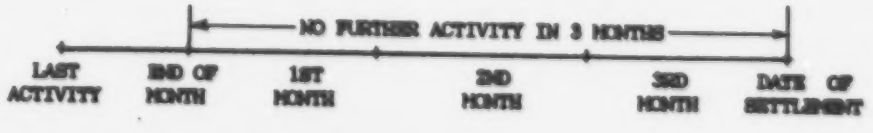
Compensation claims include those instances where the LATEST type of disability is reported as:

1. Fatal
2. Permanent Disability
3. Temporary Total Disability
4. Temporary Partial Disability
5. Temporary Partial Difference
6. Rehabilitation Only

2. INITIAL SETTLEMENT IN 19XX

This means that the claim was settled for the FIRST time in 19XX. As such, this criterion EXCLUDES those claims which had been settled for the first time in some PREVIOUS year but since has been re-opened and then resettled in 19XX. Re-opening of a claim is mainly due to recurrence of a disability after having returned to work, increase in the degree of permanent disability, death, etc. It should be noted that a new claim is set up for a new injury.

Claims are considered settled when there is no further activity anticipated. Technically, this means that there has been no action taken on the claim during the three months following the month of the last activity. Usually, the last activity is the last compensation payment in the case of a temporary disability, or the setting up of a monthly pension and/or lump sum payment in the case of a fatality or permanent disability. The following diagram illustrates this rule:



Please note that the figures are tabulated on the basis of "*Initially Settled Compensation Claims*"; an explanatory note is enclosed to clarify the definition. Essentially, this means that re-opened claims and "Health-care-only" (no-lost-time) claims are excluded. Furthermore, lost time are accumulated only up to initial settlement. Days lost attributable to subsequent resettlements are not reflected in these tables. It should also be noted that time lost is given as the number of working days on Temporary Total compensation. Time lost as a result of death and/or permanent disability are not imputed.

Personal and Social Development

- mental health
- lifestyle
- substance abuse

Chapter 6

Exhibit 6.1

ADMISSIONS TO PSYCHIATRIC UNITS BY HOSPITAL, AGE AND SEX
Hamilton-Wentworth Region
April 1 1986 - March 31 1987

Age	Total No. (all units)	Chedoke-McMaster Hospitals			Hamilton Civic General Hospital			Hamilton Civic Henderson Hospital			St. Joseph's Hospital			Hamilton Psychiatric Hospital		
		# Male	# Female	% of unit Total	# Male	# Female	% of unit Total	# Male	# Female	% of unit Total	# Male	# Female	% of unit Total	# Male	#Female	% of unit Total
0-14	10	0	1	0.29	0	0	0.00	0	0	0.00	3	6	2.01	0	0	0.00
15-24	406	35	34	20.12	16	7	13.37	7	5	4.96	44	67	24.78	127	64	18.82
25-34	646	31	28	17.20	17	17	19.77	17	28	18.52	63	76	31.03	265	104	36.35
35-44	396	23	46	20.12	13	15	16.28	18	21	16.05	26	46	16.07	106	82	18.52
45-54	292	8	28	10.49	16	18	19.77	16	32	19.75	14	26	8.93	68	66	13.20
55-64	240	11	33	12.83	14	17	18.02	20	23	17.70	12	20	7.14	35	55	8.87
65+	231	23	42	18.95	10	12	12.79	12	44	23.04	21	24	10.04	20	23	4.24
TOTAL	2221	131	212	100.00	86	86	100.00	90	153	100.00	183	265	100.00	621	394	100.00

Note: Total % indicates the percentage of patients per age category admitted to each hospital

Compiled from: Ontario Ministry of Health, Information and Systems Division, Information Resources and Services Branch, Mental Health Statistics, Table ADM07

Exhibit 6.2

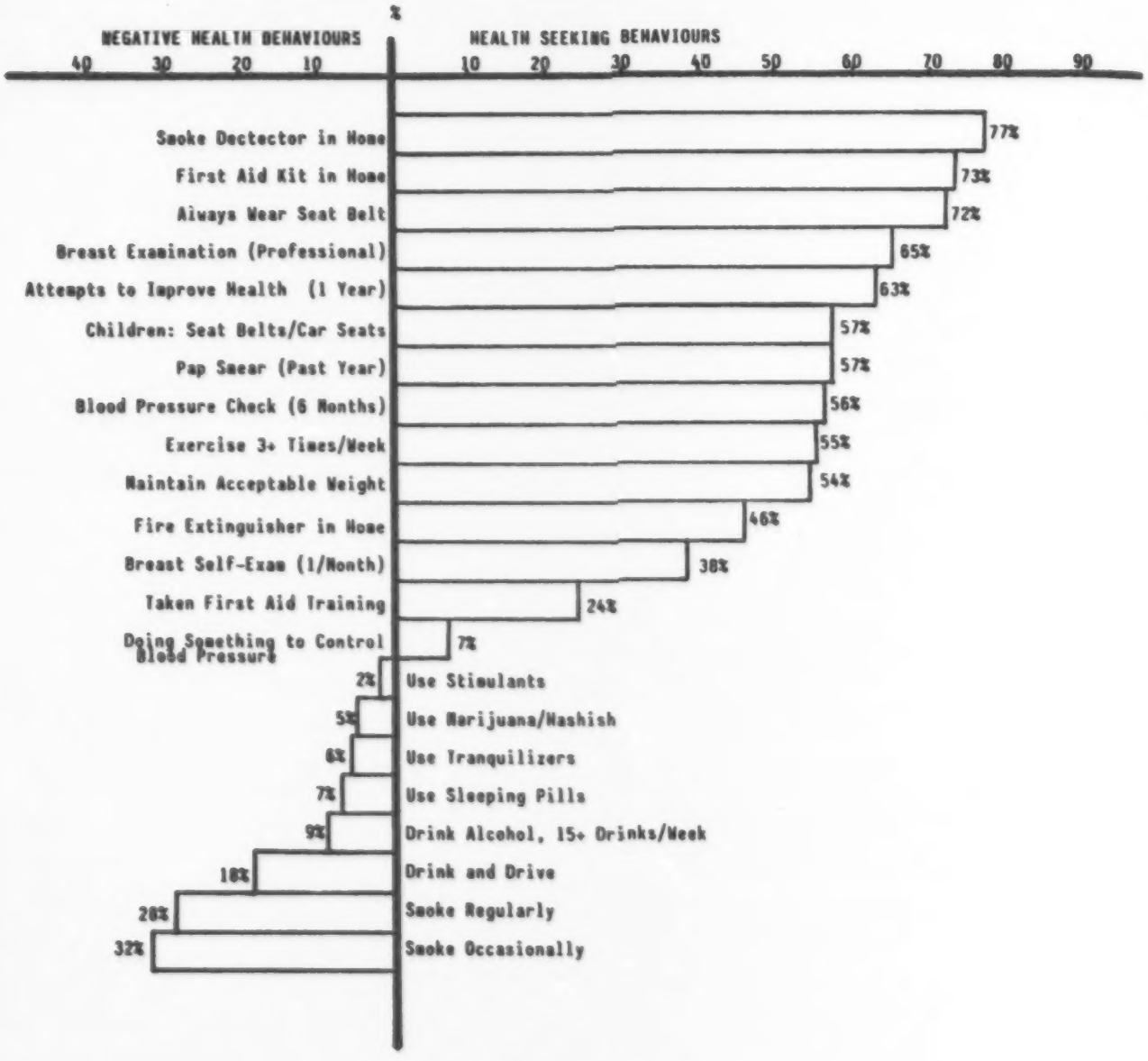
DISCHARGES BY DIAGNOSIS
Hamilton Psychiatric Hospital

Diagnosis (ICD9)	1979 # Male	1979 # Female	1979 Total %	1986 # Male	1986 # Female	1986 Total %
291 Alcoholic Psychoses	10	5	1.81	5	2	0.77
292 Drug Psychoses	3	4	0.85	12	0	1.31
293/294 Other Organic Psychoses	7	8	1.81	5	5	1.09
295 Schizophrenia	242	107	42.20	262	155	45.57
296 Affective Disorders	55	54	13.18	67	56	13.44
297 Paranoid States	7	4	1.33	7	9	1.75
298/299 Other Non-Organic Psychoses	22	9	3.75	11	17	3.06
Total With Psychoses	**346**	**191**	**64.93**	**369**	**244**	**66.99**
300 Neurotic Disorders	23	51	8.95	16	29	4.92
301 Personality Disorders	74	58	15.96	66	43	11.91
303 Alcoholism	8	2	1.21	15	6	2.30
304/305 Drug Dependence/ Abuse	8	2	1.21	15	4	2.08
308 Acute Reaction to Stress	6	3	1.09	12	14	2.84
309 Adjustment Reaction	11	4	1.81	17	15	3.50
313 Emotional Disturbance Childhood/Adolescence	0	2	0.25	0	0	0.00
302/306/307/310/311/312 /316 Non-Psychotic Disorders	19	5	2.90	11	2	1.42
317/318/319 Retardation	8	6	1.69	25	12	4.04
Total Without Psychoses	**157**	**133**	**35.07**	**177**	**125**	**33.01**
GRAND TOTAL	**503**	**324**	**100.00**	**546**	**369**	**100.00**

Source: Hamilton Psychiatric Hospital, Psychiatry, Dr.s Gary Miller & Barry Humphrey

Exhibit 6.3

PERCENTAGE OF ONTARIO RESIDENTS PRACTISING POSITIVE AND NEGATIVE HEALTH BEHAVIOURS, 1985


%
NEGATIVE HEALTH BEHAVIOURS
HEALTH SEEKING BEHAVIOURS
40 30 20 10
10 20 30 40 50 60 70 80 90
Smoke Dectector in Home 77%
First Aid Kit in Home 73%
Always Wear Seat Belt 72%
Breast Examination (Professional) 65%
Attempts to Improve Health (1 Year) 63%
Children: Seat Belts/Car Seats 57%
Pap Smear (Past Year) 57%
Blood Pressure Check (6 Months) 56%
Exercise 3+ Times/Week 55%
Maintain Acceptable Weight 54%
Fire Extinguisher in Home 46%
Breast Self-Exam (1/Month) 38%
Taken First Aid Training 24%
Doing Something to Control Blood Pressure 7%
2% Use Stimulants
5% Use Marijuana/Hashish
6% Use Tranquilizers
7% Use Sleeping Pills
9% Drink Alcohol, 15+ Drinks/Week
18% Drink and Drive
28% Smoke Regularly
32% Smoke Occasionally

Source: From Health Promotion Survey, Health and Welfare Canada, 1985.

Reprinted in Spasoff, R.A. et al. 1987. Health for all Ontario: Report of the Panel on Health Goals for Ontario. Ontario Ministry of Health. [Exhibit 11, p.28]

Exhibit 6.4

TYPES OF PROBLEM SUBSTANCES* AND AGENCY

AGENCY	# OF CLIENTS	ALCOHOL n(%)	ANTI-DEP. n(%)	M. BARB. n(%)	N-M BARB. n(%)	CANNABIS n(%)	COCAINE n(%)	HALLUC. n(%)	N-M NARC. n(%)	M. NARC. n(%)	SOLVENT n(%)	N-M STIM. n(%)	M. STIM. n(%)	TOBACCO n(%)	M. TRANQ. n(%)	N-M TRANQ. n(%)	VOLATILE NITRATES n(%)
ADAS	66	53(80.3)	0(0)	0(0)	0(0)	25(37.9)	11(16.7)	0(0)	0(0)	7(10.6)	0(0)	0(0)	0(0)	0(0)	5(7.6)	0(0)	1(1.5)
AY	47	30(63.8)	0(0)	0(0)	0(0)	25(53.2)	13(27.7)	10(21.3)	1(2.1)	0(0)	1(2.1)	3(6.4)	0(0)	0(0)	0(0)	0(0)	0(0)
BPL	47	45(95.8)	1(2.1)	1(2.1)	0(0)	8(17.0)	4(8.5)	1(2.1)	0(0)	3(6.4)	1(2.1)	1(2.1)	2(4.3)	6(12.8)	0(0)	0(0)	0(0)
MEH	53	49(92.4)	3(5.7)	4(7.6)	5(9.4)	18(34.0)	12(22.6)	8(15.1)	7(13.2)	12(22.6)	3(5.7)	6(11.3)	5(9.4)	9(17.0)	14(26.4)	7(13.2)	0(0)
WAY	38	38(100.0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	1(2.6)	0(0)	0(0)	0(0)	0(0)	0(0)	1(2.6)
TOTAL[1] SAMPLE	247	212(85.8)	4(1.6)	5(2.0)	5(2.0)	76(30.8)	39(15.8)	19(7.7)	8(3.2)	22(8.9)	6(2.4)	10(4.1)	7(2.8)	15(6.1)	19(7.7)	7(2.8)	2(0.8)

*indicates that both client and counsellor attribute substance(s) to client's seeking assistance.

[1]Study totals have been adjusted to prevent double-counting of individuals who attended more than one agency.

Note: The 247 person sample includes all those who, between July 1 and Dec. 31, 1987, presented to at least one of the five agencies and remained involved long enough that a treatment plan was developed and initiated by the client.

M: medical use, i.e. prescribed or recommended by a physician
N-M: non-medical, i.e. obtained from non-professional sources ("on the street")

AGENCY LEGEND

ADAS- Alcohol and Drug Assessment Services, assessment/referral
AY- Alternatives for Youth, outpatient counselling
BPL- Bold Park Lodge, long term residential
MEL- Mary Ellis House, long term residential
WAY- Wayside House, long term residential

SOURCE: Mike Devillaer. July 1988. Client-Centred Community Needs Assessment in Hamilton-Wentworth 1987, Hamilton: Addiction Research Foundation.

Appendix I

Cautions in interpreting data

Appendix I: Cautions in Interpreting Data in the Fact Book

At present there are three types of data which comprise the Fact Book: mortality/Morbidity data; utilization rates under treatment and social indicators. Each data type has differing advantages and disadvantages which influence their appropriateness and quality. Other types of data, and their advantages and disadvantages are outlined by Chambers et.al. (1983). A summary of the advantages and disadvantages of the data types used in the Fact Book are as follows.

A.1 Mortality/Morbidity (e.g. disease-specific mortality, hospital discharges by diagnosis)

Advantages

1. Readily available and inexpensive access;
2. Easily communicated to health professionals;
3. Trends in measures often straightforward;
4. Usually amenable to mathematical index (rate) construction;
5. Allows comparison of local area with other jurisdictions;
6. Data for several years avoids basing planning on data of an aberrant year;
7. Can be used to monitor effects of intervention.

Disadvantages

1. Residence classification unreliable (e.g. location of death may not be place where individual lived most of life);
2. Problems of repeatability in assigning codes (e.g. ICDA diagnostic codes);
3. Lack of continuity in trends and changes in coding rules resulting from revisions of ICDA;
4. Variations in medical terminology;
5. Differences in thoroughness in completing medical cause of death certification and morbid events in hospitals and communities;
6. Difficulties in establishing the correct cause of death and diagnoses;
7. May be outdated;
8. Often incidence not prevalence or vice versa, e.g., psychiatric admissions;
9. Overlapping jurisdictions.

A.2 Utilization/Rates Under Treatment (e.g. therapeutic abortions, nutrition counselling per patient in diabetic day care)

Advantages	Disadvantages
1. Availability and low cost;	1. May be inaccessible or poorly reported (under reporting is common);
2. Usually reliable if financial incentive to complete forms and/ or to report performance;	2. Coding may vary from center to center, making comparison difficult;
3. Can be used to compare utilization across facilities, regions and time;	3. May be "overestimates" of illness (psuedo-morbidity);
4. Can be used to monitor effects of intervention(s).	4. May be outdated;
	5. May be inaccurate because of overlapping jurisdictions for reporting;
	6. May be under-reporting of stigmatizing disorders (e.g. VD).

A.3 Social Indicators (e.g. income levels of families, worker's compensation)

Advantages	Disadvantages
1. Readily available and inexpensive to assess;	1. May be grossly outdated, as most data are collected at 10 year intervals (the census) (1951, '61, '71, '81);
2. Can be used to monitor the effects of intervention.	2. Measures like age, sex, or date of birth are often inaccurate. Frequently inaccurate and complex measures include income, education and employment;
	3. Often only incidence (new characteristics/problems of persons at a given point in time) and not prevalence (total number of persons with characteristics/problems at a given point in time); or prevalence not incidance;
	4. Relationships between health and social indicators are often tenuous;
	5. Comparisons across jurisdictions often impossible because of overlapping jurisdictions or lack of comparable data about each jurisdiction.

Appendix II

Additional and forthcoming resources

APPENDIX II
ADDITIONAL AND FORTHCOMING RESOURCES

A brief annotated bibliography of health-related research programs whose results are due to be released in the next few months is provided below. A few datasets for which information could not be collected in time for inclusion in this edition of the Fact Book have also been included below.

I.

Project title: North Hamilton Community Health Survey

Principal investigator(s): Dr. J. Feightner
Dr. J.J. Rice

Organization(s): North Hamilton Community Health Centre
McMaster Faculty of Health Sciences

Anticipated release date: Fall of 1988

Synopsis: Survey of over 500 randomly selected households using a standardized questionnaire containing 122 questions, providing data in eight areas: respondent profile, self-perceived health status, psychological well-being, burden of illness, lifestyle and health issues, health maintenance and prevention, health care utilization, and social networks. This work focussed on the North End of Hamilton [pop. aprox 5,812 (1981 census)], and was conducted during the summer of 1986 on behalf of the North Hamilton Community Health Centre.

II.

Project title: Services for Seniors Study

Principal investigator(s): Elsie German

Organization(s): Hamilton-Wentworth District Health Council
Regional Municipality of Hamilton-Wentworth

Anticipated release date: Fall of 1988

Synopsis: The Services for Seniors study was a 2.5 year investigation of the use of existing health and social service programs for the elderly in the Region. It has attempted to determine the appropriateness of existing service and accommodation availability, the extent of overlap in service provision, and the possible existence

of gaps in the continuum of care for the elderly. The study has comprised three surveys: a bed accomodation and waiting list survey, an agencies and government representatives as key informants survey, and a senoir citizens as key informants survey. The study reports on the findings of these surveys as well as providing an historical perspective on the evolution of services for seniors in the Province and Region. Community support services, information dissemination, medical and psychiatric services, education, and housing are also considered.

III.

Project title: Report on Health Indicators in Ontario

Principal investigator(s): Lily Eastridge

Organization(s): Ontario Ministry of Health, Public Health Branch

Anticipated release date: Fall/Winter 1988

IV.

Project title: Neighbourhood Smoking Survey

Principal investigator(s): Dr. Harry Shannon

Organization(s): Faculty of Health Sciences, McMaster University (Clinical Epidemiology and Biostatistics)

Anticipated release date: material on the prevalence of smoking by age group, gender and geography (c.1980) to be included in the next edition of the Fact Book

V.

Project title: Statistical Report on Community Health

Principal investigator(s):

Organization(s): Ontario Ministry of Health, Community Health Programs Branch

Anticipated release date: Winter/Spring 1989

Synopsis: Follow-up to the 1984 report in revised format

VI.

Project title: A Description of the Social Assistance System in Hamilton-Wentworth

Principal investigator(s): Jane Opie, Gloria DeSantis

Organization(s): Social Planning and Research Council of Hamilton and District

Release date: August 1988

Synopsis: Description and holistic analysis of the local social assistance network

Appendix III

The Health Priorities Analysis Unit
Synopsis of activities and committee membership lists

Educational Centre for Aging and Health

THE HEALTH PRIORITIES ANALYSIS UNIT (H.P.A.U.)

The H.P.A.U. is a health information unit in the Educational Centre for Aging and Health which is actively establishing working relationships with information sources in the Community, the University and Regional Government. Its role is to foster and promote advances in education and research in health and health care by encouraging the development of systems for improving access to and use of reliable information concerning health needs and trends in the community.

In pursuit of this goal the H.P.A.U. is developing strategies for:

1. Identification, generation and sharing of population based health related information including:

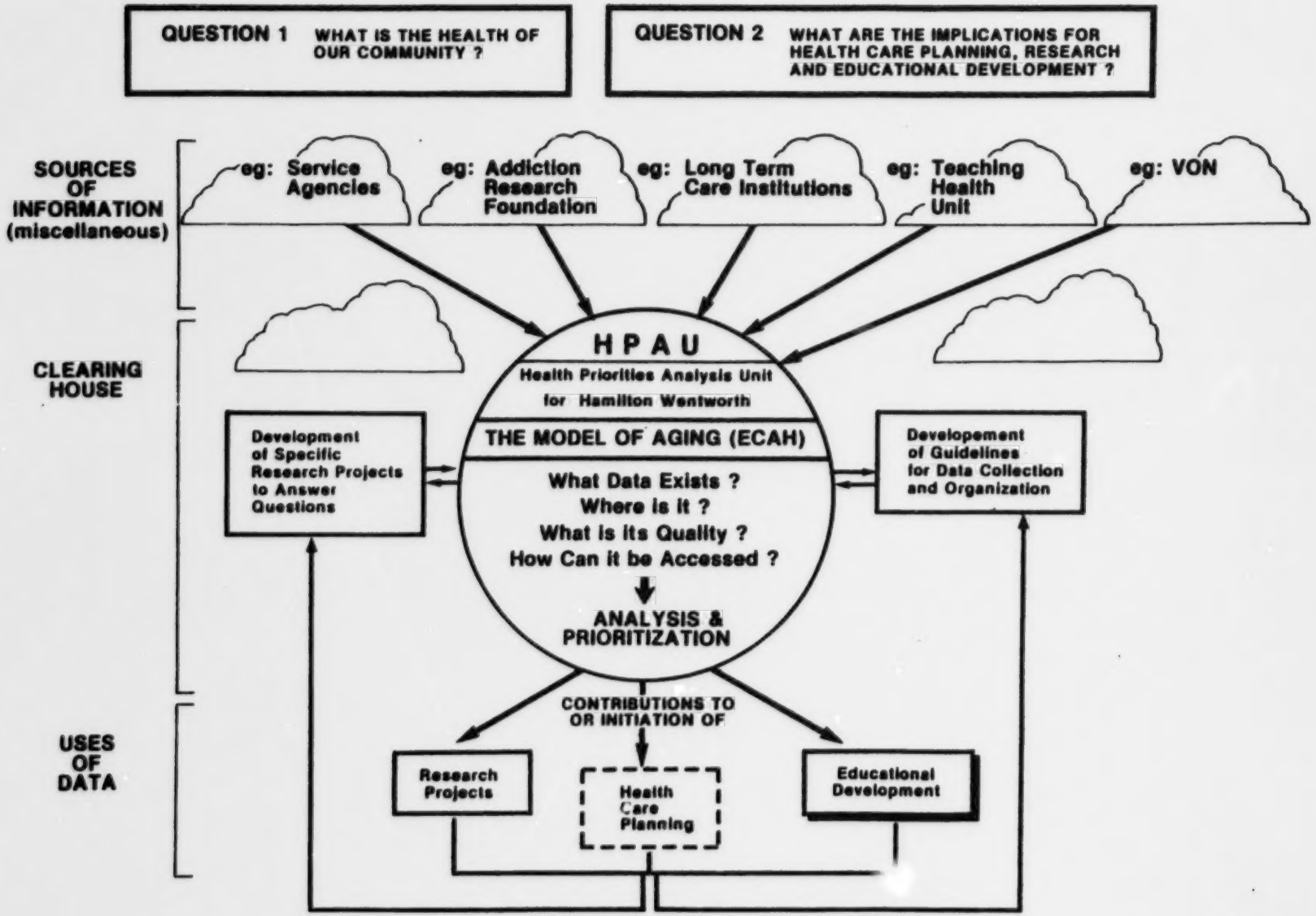
   - identification and registration of existing health information sources in full collaboration with those sources
   - encouraging sharing of population based information for purposes of improving education of health professionals, research and health planning
   - encouraging and facilitating acquisition of health information and, when indicated, assisting in the identification of expertise and guidance in the compilation of data.

2. Information management including:

   - encouraging and facilitating analysis and verification of existing or new data and prioritizing health needs based on data analysis
   - translating and displaying information in an understandable form to assist in education, research and health care planning
   - to maintain links among information sources and educational research and health care planners to foster and facilitate continuity of information availability and utilization to assure that these activities continue to be current, relevant and of high quality.

For further information contact: The Health Priorities Analysis Unit, McMaster University Medical Centre, Room 2J3, Hamilton, Ontario L8N 3Z5 tele: (416) 525-9140, ext. 2254

After April 30, 1988: 25 Main Street West, Hamilton, Ontario L8P 1H1


QUESTION 1 WHAT IS THE HEALTH OF OUR COMMUNITY ?
QUESTION 2 WHAT ARE THE IMPLICATIONS FOR HEALTH CARE PLANNING, RESEARCH AND EDUCATIONAL DEVELOPMENT ?
SOURCES OF INFORMATION (miscellaneous)
eg: Service Agencies
eg: Addiction Research Foundation
eg: Long Term Care Institutions
eg: Teaching Health Unit
eg: VON
CLEARING HOUSE
HPAU
Health Priorities Analysis Unit for Hamilton Wentworth
THE MODEL OF AGING (ECAH)
What Data Exists ?
Where is it ?
What is its Quality ?
How Can it be Accessed ?
ANALYSIS & PRIORITIZATION
Development of Specific Research Projects to Answer Questions
Developement of Guidelines for Data Collection and Organization
CONTRIBUTIONS TO OR INITIATION OF
USES OF DATA
Research Projects
Health Care Planning
Educational Development

HEALTH PRIORITIES ANALYSIS UNIT
SUMMARY OF 1988 ACTIVITIES

1. Fact Book on the health status of Hamilton-Wentworth residents

The HPAU is currently working with Health Department personnel to update the Fact Book on the Health Status of Citizens in the Regional Municipality of Hamilton-Wentworth. The fact book is a collection of available information on health status gleaned from routinely collected data and from special reports, much of which has not previously been widely disseminated.

The fact book will be made available to students, educators, researchers and community groups, and is expected to be a valuable resource in the identification of information sources and in facilitating communication and coordination of health-related activities in the region.

2. Inventory of local health-related datasets

In keeping with the educational mandate of the HPAU, we have undertaken to produce an inventory of local health-related datasets to facilitate the assessment of community needs, and contribute to the development of educational programs that address these needs. We hope to eventually develop an inventory of sufficient breadth and quality to assist in the prioritization of community needs for educational and resource planning. It is understood that this will require a quality and level of standardization amongst datasets (in geography and in key identifiers) that is not currently available.

Two survey questionaires were designed and edited as instruments to identify the number, type and quality of available community data sets. The first consisted of a preliminary one page questionnaire distributed in the fall of 1987. It was followed with a more detailed survey instrument mailed to 53 selected agencies and groups in the community. A further 18 of the 25 respondents were interviewed. The results of this pilot project have been collated and computerized for analysis. Our initial findings suggest that, given ambiguities in questionnaire wording and an emphasis on stracture rather than content, the current databas is not as practical as had been hoped.

We are currently developing a subject-based inventory using hierarchical keyword structures to provide agency listings along (user) selected topics. Keywords will be compiled from the data entry forms being currently solicited from selected community agencies. Under consideration is a 3 or 5-point scale denoting the degree to which the agency 'focuses' on the selected topic (almost exclusively or primarily versus a few or one field in the database). "Users" of this inventory would be urged to contact the identified agency(ies) directly, avoiding concerns regarding confidentiality which would arise if HPAU was a direct data distributor.

3. PaRCIL

Under the aegis of the Regional Municipality, a major incentive to integrate and computerize geographically-referenced planning and socio-demographic data has been undertaken using geographic information systems. The HPAU has undertaken to assist in exploring the potential integration of the health sector into this project. This will involve a co-ordinated standardization of health data with respect to quality, geography (scale, boundaries), and key identifiers. Initial HPAU involvements in this context have thus far been limited to the regional Department of Health Services.

4. Pilot projects

It is our hope that specific joint cooperative projects will provide the opportunity to cement and animate otherwise formal or "paper" ties between the HPAU and community organizations. Some initiatives have been proposed and/or begun with agencies who sit on our Community Advisory Board and others will be sought. As of June 1988, some of these projects are as follows:

(a) **Joint HPAU/SPRC GIS pilot project**

Exploring the potential for the application of geographic information systems (GIS) to the routine mapping and analysis of socio-economic and of health and service utilization by neighbourhood within the Hamilton-Wentworth area. A pilot study using three variables from the 1981 census and rudimentary GIS software will determine the adviseability of applying this technology to a larger database that the Social Planning and Research Council (SPRC) is acquiring for the production of its censal neighbourhood data catalogue.

(b) **Joint HPAU/ARF educational pilot project**

Working in cooperation with the Addiction Research Foundation (Hamilton office) to develop an educational module for the McMaster MD and nursing programs tailored specifically to the identification, treatment and wider context of alcoholism. Local data will be used to supplement the literature in outlining the need for a focus on alcohol abuse as a major health problem in North American society, and in the Hamilton-Wentworth region.

(c) **HPAU community topic-based inventory pilot project**

Solociting questions of concern from local agencies in community health to guide the development of a topic-based inventory of information sources responsive to community needs.

(d) **Joint HPAU/PCS community needs prioritization**

Exploring joint cooperation with the Placement Coordination Service in the identification of specific priority issues in the community, such as hearing loss or substance abuse among the elderly, to facilitate research and planning on these issues.

5. **Established Populations for Epidemiological Studies of the Elderly (EPESE)**

The HPAU is working with colleagues at McMaster and the University of Guelph, as well as a number of community participants, on a proposal for a feasibility study in preparation for a larger longitudinal study of the health and social needs of, and predictors of health service utilization among, seniors in the Hamilton-Wentworth region. Emphasis will be placed on nutrition and muskulo-skeletal issues. The study will be undertaken in collaboration with four centres in the United States and in cooperation with the National Institute on Aging.

May, 1988

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H.P.A.U.

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Ms. W. Torresin	OT/PT Programme
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Dr. S. Walter	Graduate Programme DHE/M.HSc.
Mr. J. Wilson	Ministry of Community & Social Services

Appendix IV

- Fact Book user questionnaire

APPENDIX IV

FACT BOOK USER QUESTIONNAIRE

1. How would you describe yourself?

___ Student
___ Educator
___ Community agency
___ Library
___ Government agency
___ Other (please specify:_____)

2. Have you made specific use of the Fact Book for: (please elaborate)

(a) education _____
_____
(b) service _____
_____
(c) research _____
_____

3. Did the Fact Book alter your approach to or thinking on an issue? If so, how? (Or if not, why not?)

_____
_____
_____
_____
_____
_____
_____

4. What is your overall impression of the Fact Book with respect to each type of use identified below:

Education: poor 1 2 3 4 5 very favourable
Service: poor 1 2 3 4 5 very favourable
Research: poor 1 2 3 4 5 very favourable

5. Please rate the sections of the Fact Book according to how helpful they were <u>to you</u> in each type of use, as identified below, (where 1 = not very helpful and 5 = very helpful, and NA = not consulted).

Education	Service	Research	
___	___	___	Introduction
___	___	___	Socio-demographic
___	___	___	Health status
___	___	___	Preventive PHC
___	___	___	Community H Protection
___	___	___	Personal & Social Dev't
___	___	___	Appendices

700

6. How would you evaluate the material in the Fact Book?

awkward, confusing	1 2 3 4 5	user-friendly
poorly documented	1 2 3 4 5	well documented
poorly organized	1 2 3 4 5	well organized

7. How did you find out about the Fact Book?

___ colleague
___ course bibliography
___ ECAN/HPAU newsletter
___ Other: _____

8. Your comments and suggestions regarding the content, presentation and organization of the fact book would be most appreciated.

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

PLEASE DETACH AND RETURN TO: Health Priorities Analysis Unit
25 Main Street West, 2nd floor
P.O. Box 897
Hamilton, Ontario
L8N 3P6

[Inquiries welcome: 572-7970]